

# DID YOU KNOW

## CHEMISTRY AND CARELESSNESS DON'T MIX.

Improperly storing, handling, or mixing chemicals can pose significant safety and environmental risks. Before working with chemicals, ensure that proper controls are in place and personal protection equipment (PPE) is used, and that all involved are aware of the nearest locations for eye washes and safety showers, as appropriate. Also, make certain that everyone has reviewed the appropriate safety data sheets (SDS) and fully understands the potential hazards. If work with chemicals must be undertaken in a confined space, allow only trained workers with an official work permit to perform the necessary tasks. Should spills of hazardous chemicals occur, take emergency response action as indicated in your emergency response plan. Some spills may require government reporting so be familiar with those requirements as well.

At Halliburton, solving customer challenges is second only to keeping everyone safe and healthy.



### Bypassing Safety Controls

The Halliburton Life Rules are a set of core factors that affect personal safety that all Halliburton employees know and live by. These are key components for identifying and managing the hazards in our business.



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# DID YOU KNOW

## PROPER LOCK OUT-TAG OUT WILL TAKE THE RISK OUT.

Before starting any repair or service work, make certain all local energy sources are properly isolated. Ensure you, identify, neutralize, lock out and tag power sources so they cannot be energized. That's what the LOTO (Lock Out - Tag Out) protocol is all about: the absolute control of energy sources at the job site.

Always remember that power sources are not always electrical; hydraulic systems can still hold high pressure in cylinders. Suspended loads could have gravity activated features and spring-loaded devices can release significant energy. All of these if not neutralized may cause serious injury, and even death. LOTO = saves lives.

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**Bypassing Safety Controls**



**Energy Isolation**

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# DID YOU KNOW

## IGNORING THE WARNING SIGNS IS RISKY BUSINESS.

Whether you're in the field, lab, yard or refinery, going home alive and well can come down to instantly recognizing — and obeying — a workplace phrase, color or symbol.

These signs are there to give warning. Your job is to know what they mean — and take notice. If you're not sure what to do, or how to do it, then STOP WORK and perform a Job Safety Analysis. It's not rocket science. But ignoring a simple sign can bring harm to you — and to those around you.



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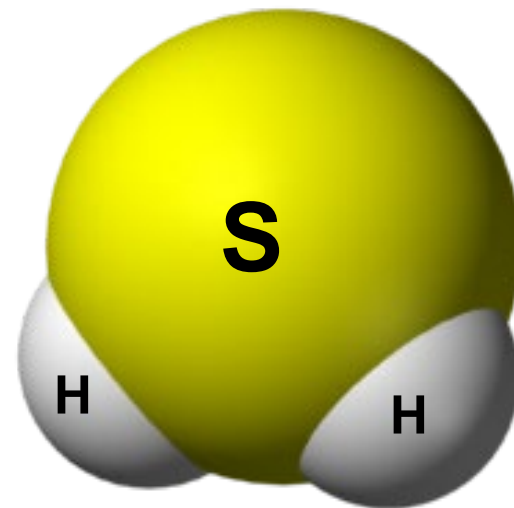
HYDROGEN SULFIDE ( $\text{H}_2\text{S}$ ) IS A COLORLESS, FLAMMABLE GAS THAT CAN BE DEADLY.

$\text{H}_2\text{S}$  may be present in oil and natural gas produced from wells with sulfur and sulfides.  $\text{H}_2\text{S}$  is colorless, and thus invisible to the naked eye, and has the odor of rotten eggs. Before working at a site that could produce  $\text{H}_2\text{S}$ , ensure your personal protective equipment and  $\text{H}_2\text{S}$  sensor are in good working order. Keep your face clean-shaven to ensure a safe seal in the event a respirator is necessary. Use personal or permanent area sensors to monitor  $\text{H}_2\text{S}$  levels before and during operations. Know the evacuation routes and meeting points. And remember —evacuate upwind or cross-wind, not in the direction the wind is blowing.

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**Bypassing Safety Controls**



Hydrogen Sulfide ( $\text{H}_2\text{S}$ )

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# DID YOU KNOW

IF YOUR PERSONAL PROTECTION EQUIPMENT ISN'T EXACTLY RIGHT, THINGS CAN GO SERIOUSLY WRONG.

For many tasks, personal protection equipment (PPE) is the only thing that stands between you and injury—or worse. Whether we're talking respirators, safety glasses, gloves, helmets, steel toe boots, fire resistant clothing or chemical suits, it's not enough to just identify the correct PPE for the hazards at hand. Your equipment should be a proper fit and regularly maintained and inspected before use.

For example, did you know that hardhats have expiration dates? And for good reason, plastic gets brittle with age. After a while—or once it's sustained a serious blow—a hardhat needs to be replaced.

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# DID YOU KNOW

## PERSONAL PROTECTION EQUIPMENT CAN'T TAKE CARE OF YOU IF YOU HAVEN'T TAKEN CARE OF IT.

When it comes to Personal Protection Equipment, safety precautions begin before you put anything on. You need to do 1, 2, 3, before you put on PPE.

1) Identify 2) Maintain 3) Inspect

*Identify* potential hazards you could encounter. That will help determine the kind of protective gear you need. *Maintain* all PPE so it's safe to use at any time. And *inspect* each piece of equipment before you put it on. Never assume it's ready to be used. Being sure is the best way to be safe.

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# DID YOU KNOW

HEARING PROTECTION BLOCKS NOISE FROM REACHING YOUR EARDRUM BY FORMING AN AIRTIGHT SEAL.

- Do not wear hats underneath muff-style hearing protectors.
- Foam- and insert-style hearing protectors must be fully inserted into the hearing canal to be effective.
- Extremely noisy work environments may require wearing both foam-style plugs and a muff-style hearing protector.



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# DID YOU KNOW

IT'S NOT JUST WHAT TO WEAR,  
IT'S ALSO WHEN AND WHERE TO  
WEAR IT.

The above is true of all Personal Protection Equipment. And it's particularly important in relation to respirators.

In addition to ensuring proper functioning and fit of respirators, you should always wear one whenever there's any potential for working in atmospheres that may contain insufficient oxygen, harmful levels of chemical, biological, or radiological contaminants. Safety equipment can't keep you safe if you don't wear it when you should.

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# A SAFETY CHECK BEFORE YOUR ACT IS SMART PREPARATION THAT PAYS

Whether you're on a well site or in the shop, before performing any task always pause and ask yourself:

- Do I know what I'm going to do and all the risks involved?
- Do I have control over the risks?
- Am I sure I'm not over-confident to perform this task?

If you answer “No” to any of these questions, then step back, make a detailed analysis, and if necessary ask for support. Proceed with your task only when you’re certain of safety.

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# DID YOU KNOW

## HANDLING CHEMICALS SAFELY INCLUDES KNOWING WHAT TO GET YOUR HANDS ON QUICKLY

Even if you've taken all the right precautions, accidents can still occur.

That's why it's vital, before work begins, to know exactly where the nearest safety showers, eyewash stations, and spill kits are located — as well as the quickest way to get to them. A little advance planning will go a long way to keeping you and your colleagues safer.

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