





Personal Protective Equipment

Oil and Gas PPE Checklist: Head, Face and Eye Protection

Vanessa Jo Roberts | Jan 09, 2020

What specific head, face and eye protection is needed in the oil and gas industry? Our PPE checklist will help you outfit your workers' specific needs.

The dangerous work in the oil and gas field makes the chance of injury or fatality one of the highest of any industry.

In fact, from 2008 through 2017, "1,566 workers died from injuries in the oil and gas drilling industry and related fields, according to data from the U.S. Department of Labor's Bureau of Labor Statistics," notes this *article by The Center for Public Integrity*.

Vehicle incidents and struck-by hazards result in the most fatalities for upstream workers involved in oil and gas extraction, according to the *Occupational Safety and Health Administration*. Downstream at refineries and processing plants, the potential for coming into contact with chemicals and fumes increases.

The hazards in jobs across this industry make personal protective equipment for the head, face and eyes a paramount safety focus.

What about protective gear for flash fires and explosions? Find out why oil and gas workers require flame-resistant clothing in this Better MRO article.

Oil and Gas Safety Equipment: Head Protection

"Hard hats are worn in nearly every upstream application to protect workers from head injuries ranging from minor bumps to concussions and even severe trauma which can result in death," says *Industrial Safety & Hygiene News*.

Don't Forget Silica Protection for Oil and Gas Workers

Oil and gas extraction often produces silica dust, which means businesses must comply with *OSHA's crystalline silica rules*.

"Hydraulic fracturing involves pumping large volumes of water and sand into rock allowing oil and gas to flow into a designated well," explains an article on the *MCR Safety blog*. "The process involves transporting silica sand into and through sand movers, releasing dusts into the air."

Read OSHA's fact sheet about silica and hydraulic fracturing *here*, and find out how to develop a silica dust control plan in this *Better MRO article*.

What to look for in a hard hat.

- ANSI Type II/CSA Type 2 protection to reduce lateral and crown impact.
- High-density polyethylene to provide chemical resistance.
- Multiple suspension points to improve comfort while ensuring a snug fit.
- Lightweight.

Never forgo comfort. "Studies prove that uncomfortable caps are not worn consistently, leaving workers vulnerable to injury," adds the ISHN article.

Also, make your workers aware that they must regularly inspect their hats because chemical exposure, high temperatures and the ultraviolet rays of the sun can break down hat material and suspensions over time, reducing a hat's protective value.

"A good rule of thumb is to replace the suspension every year and the shell every five years," ISHN points out.



Want to compare different types of hard hats? Use our safety product selector.

Oil and Gas Safety Equipment: Face Protection

Again, the potential for flying debris and splashing chemicals makes the use of face shields a smart option for workers in this industry.

"These shields extend from the eyebrows to below the chin and across the width of the employee's head," explains *Princeton University's environmental health and safety documentation*.

What to look for in a *face shield*:

- Compliance with **ANSI Z87.1** to provide chemical or UV protection (avoid fluid-resistant shields as they can't withstand chemical splashes).
- Specific chemical resistance for hazards unique to your worksite.
- A blast shield for work involving highly explosive materials.
- Anti-fog and anti-scratch coatings.

Oil and Gas Safety Equipment: Eye Protection

A face shield is not enough.

"When worn alone, face shields do not protect employees from impact hazards," notes OSHA's *Eye and Face Protection eTool*. "Use face shields in combination with safety spectacles or goggles, even in the absence of dust or potential splashes, for additional protection beyond that offered by spectacles or goggles alone."

What to look for in safety glasses and goggles:

- Specialized lens tints for specific lighting levels since many in this industry work outside.
- Transitional lenses for workers who must go between indoor to outdoor locations often.
- Customizable eyewear for personal fit adjustments
- Anti-fog and anti-scratch coatings.
- Goggles or wrap-around glasses to protect from all angles.

"Ensuring that safety eyewear fits every worker properly—and comfortably—is a tall order, but a vital one," writes Wanda Sanchez-Miller of Honeywell Safety and Productivity Solutions in *OH&S magazine*. As with hard hats, workers simply won't use protective eyewear if the fit is poor, but also if the eyewear is unattractive, she adds.

Eye Protection Guide: Picking the Right Safety Glasses and Goggles

Safety managers are often challenged by which PPE to use for eye and face protection. Eyewear compliance can be complex to navigate between OSHA and ANSI standards. Workers often ignore wearing glasses and goggles because of fit and comfort issues—leading to thousands of people blinded each year on the job. We're here to help.



Protect for Your Specific Environment



- Don't Forget





Make It Comfortable, **Give Flexible Options**

The goal: Keep glasses on workers

Heavy glasses or goggles are doom

Options Exist





Adapting to Your Needs

Tech for Any Situation Temperature changes? Light variation?

Two types of anti-fogging glasses:

Lens tinting blocks harmful rays indoor or outdoor



VLT CLEAR protection 85% VLT



























FILTER SHADES



Look for the ANSI Marking

Flying Debris Is Not the Same as a Chemical Splash

Jse the glasses or loggles for the right application



Ensure Compatibility of Oil and Gas PPE

Clearly, if workers don goggles, face shields, hard hats—and potentially *earplugs or earmuffs* too—a key factor during product selection must be compatibility. Will the PPE gear mesh together well and be comfortable once workers don all the pieces?

"Together, head and face protection should provide a comfortable, secure and reliable fit," says the ISHN article. "Convenience features that allow the user to quickly and easily switch between types of face protection save time, while easy adjustability features eliminate worker frustration and help ensure that PPE stays on—even while making adjustments."

What challenges have your workers faced if they must work outdoors with head, face and eyewear protection?

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