

Safety Technology Can Save Lives at Work



Top Risks

According to [Occupational Safety and Health Administration](#), some of the most **critical non-roadway hazards** affecting the oil and gas industry include:

- Struck-by/caught-in/caught-between
- Explosions and fires
- Falls
- Confined spaces
- High pressure lines and equipment
- Electrical and other hazardous energy
- Machine hazards



Data Insights

The [Bureau of Labor Statistics](#) reported an **average of 79 fatalities per year** in the oil and gas industry between 2016 and 2020. In 2019:

- 66 were transportation incidents
- 18 involved contact with object and equipment
- 15 were from exposure to harmful substances or environments
- 14 were related to falls, slips and trips
- 9 were from fires and explosions
- 5 were related to violence and other injuries by persons or animals



Technology Solutions

An [Oil and Gas Digital Transformation and Workforce Survey 2020](#) found that **data analytics** has the greatest potential to impact safety and business.

Select technologies currently in use include:

- Mobile platforms/apps
- Operational technology (e.g., remote sensors, etc.)
- Cloud computing
- Remote monitoring
- Robotics process automation (RPA)
- Advanced analytics
- 3D printing

Industry Overview

The **Oil & Natural Gas** industry plays a significant role in the world's energy market. The industry is comprised of the following three sectors:

- **Upstream** – oil and gas exploration and production
- **Midstream** – transportation and storage
- **Downstream** – refining and marketing

According to the [U.S. Energy Information Administration](#), uses for oil and natural gas span “nearly all sectors of the economy.”

BLS estimates there were nearly 140,000 people employed in the oil & natural gas extraction industry in 2021.

To Learn More...

Explore the tools and resources available at [nsc.org/WorktoZero](#) to learn how digital technologies can save lives:

- Complete a [Digital Readiness Assessment](#) to determine your organization's readiness
- Use a [Digital Technology Locator Tool](#) to identify safety technologies
- Locate specific, market-ready technologies at [Safetytech.ai](#)
- Use an [Investment Calculator](#) to explore the value of adopting safety technologies
- Follow a [Pilot and Implementation Roadmap](#) to adopt life-saving technologies

