WORKtoZERO
an nsc program

Industry Spotlight: Oil & Gas

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

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