

When supervisors doubled the number of conversations that included safety, unsafe acts fell by 20%.

In a safety behavior study, researchers looked at two things: how frequently supervisors talked about safety and the number of safety incidents.

They found that in facilities where supervisors talked more frequently about safety, unsafe acts were less likely to occur. These include:

- unsafe material handling incidents
- lockout/tagout errors
- personal protective equipment (PPE) violations.

Supervisors talking about safety has a bigger impact than:

- safety posters
- emails
- training
- websites.

Source:



A researcher found a strong correlation ($r = -0.65$) between supervisors' informal conversations about safety and serious accidents in eight Dutch chemical plants. Typically, any correlation larger than ± 0.2 is considered statistically significant.

Detailed written instructions about the work permit had no effect on safety, while a more informal conversation had a large effect, greatly reducing incidents.

Source: As, S. V., "Communication and Industrial Accidents," SOM Research Report, Univ. of Groningen, The Netherlands, www.rug.nl/research/portal/files/3111189/01A24.pdf (2001).



Compliance with written safety standards (involving handling hazardous materials) climbed from 47% to 74% when supervisors personally asked for compliance.

A posted sign showing the correct procedure and supplemental written procedures had no effect. However, when a supervisor entered the lab and had a face-to-face conversation in which they specifically asked employees to wear PPE, compliance significantly improved.

Source: Wogalter, M. S., et al., "Research-Based Guidelines for Warning Design and Evaluation," *Applied Ergonomics*, 33, pp. 219–230, www.who.int/fctc/guidelines/ArtElevenWogalterNine.pdf (2002).



A study compared five oil companies that operated multiple offshore platforms in the Norwegian continental shelf region.

The variance in safety incidents between the companies was small. In other words, the companies had similar overall safety performance.

However, variance between platforms within each company was large — each company had some good and some poor-performing platforms.

Researchers concluded that the overall company culture has a relatively small influence on safety, but the local platform management has a large influence on safety performance.

Source: Høivik, D., "What Is Most Important for Safety Climate: The Company Belonging or the Working Environment? A Study from the Norwegian Continental Shelf," *Safety Science*, 47 (10), pp. 1324–1333, www.sciencedirect.com/science/article/pii/S0925753509000757 (Dec. 2009).

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