

Light-Vehicle Drivers

NIOSH Motor Vehicle Safety Impact Story

Millions of workers drive light vehicles to meet with clients or customers.



58% of the workers who died in workplace motor vehicle crashes in 2016 were **not** in vehicle-operator jobs such as truck, bus, or taxi driver.¹

Key Actions:



- Identify crash risk factors and evaluate safety practices.
- Analyze fleet safety data from the Network of Employers for Traffic Safety (NETS).



Participate in the American National Standards Institute (ANSI)/American Society of Safety Professionals (ASSP) Z15 standards committee, NETS, and the Road to Zero Coalition.



Publish a quarterly eNewsletter, [Behind the Wheel at Work](#), to reach more than 25,000 subscribers with research updates, practical tips on workplace driving, and news about events.

Key Findings:

- In-vehicle warning lights, combined with supervisory coaching, reduced risky driving behaviors by 43% among light-vehicle fleet drivers.
- Using only Fatality Analysis Reporting System (FARS) data, work-related crash fatalities are dominated by transportation workers and trucks. Adding cases identified by the Census of Fatal Occupational Injuries (CFOI) showed that fatal work-related crashes significantly impact workers across all industries and occupations.
- For 70 NETS companies, several practices were related to lower collision and injury rates, including mobile phone record checking, fatigue management practices, driver training, and an intensive collision review process.



¹Bureau of Labor Statistics. [Table A-6](#). Fatal occupational injuries resulting from transportation incidents and homicides by occupation, all United States, 2016.

Key Outputs:



- *Journal of Safety Research* [article](#): Evaluation of an in-vehicle monitoring system (IVMS) to reduce risky driving behaviors
- *Accident Analysis & Prevention* [article](#): Work-related fatal motor vehicle traffic crashes: Matching of 2010 data from CFOI and FARS



Repackage research results for safety professionals:

- *Professional Safety* [article](#): Fleet safety: Developing & sustaining an effective program with ANSI/ASSE Z15.1
- Older drivers in the workplace [fact sheet](#)



- Preventing work-related motor vehicle crashes [fact sheet](#)
- Keep workers safe on the road [infographic](#)



Key Impacts:

- NIOSH contributed technical expertise to the revised ANSI/ASSP Z15.1 standard, *Safe practices for motor vehicle operations*. This standard outlines requirements for managing fleets of all sizes, industries, and vehicle types.
- NIOSH contributed technical expertise to the ANSI/ASSP TR-Z15.3 technical report, *Management practices for the safe operation of partially- and fully-automated motor vehicles*.
- Analysis of NETS benchmarking data identified road safety practices that were significantly associated with lower collision and injury rates, providing member companies with important information to improve and/or reinforce practices.
- A large health care company developed safety campaigns to target issues identified by NIOSH. The company extended its IVMS program to newly-hired drivers based on NIOSH research that showed higher collision rates for drivers with the shortest tenure with the company.