Defensive Driving In the Commercial Vehicle

Jeff Lanning

Loss Control Representative

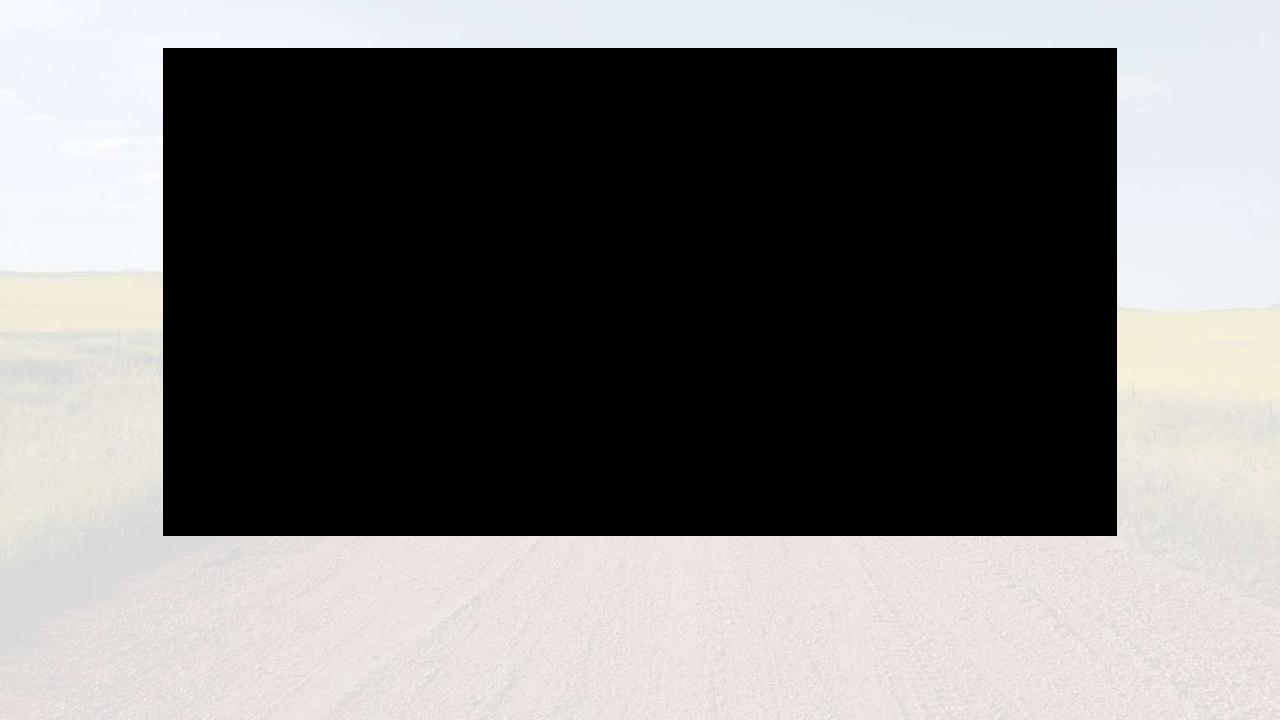


37th Annual North Central Local Roads Conference Rapid City, SD - October 18-20, 2022

Defensive Driving



Safety Benefits Inc. 1-888-313-0839 www.safety-benefits.com



#1 cause of workplace fatalities in 2021



Transportation Incidents

Defensive Driving Statistics

NHTSA Fact Sheet

- 2020 NATIONWIDE TRUCK CRASHES
- 5,005 people killed in crashes involving large trucks
- 71% were occupants of other vehicles
- 77% occurred during weekdays
- 2% of the truck drivers were intoxicated (far less than national average of 29% for motorcycles, 20% for cars, 19% for light trucks)

Defensive Driving Statistics

- 2021 SOUTH DAKOTA TRUCK CRASHES
- 148 total fatal crashes (all vehicles)
- 1 fatality involved semi trucks
- 0.6% Percentage of large trucks involved in fatal
 crashes in SD (compared to 9.8% nationwide)

SD Sees Increase in Traffic Deaths in 2021

- 148 motor vehicle fatalities
- 38% higher than 2020
- Key contributing factors:
 - Alcohol
 - Speeding
 - Not wearing a seatbelt

Defensive Driving

Why does this continue to happen?



Most people are unaware that crashes are violent and life changing

The Reality

MANY DRIVERS DON'T

- Pay attention
- Drive at appropriate speed
- Follow traffic laws consistently



Why defensive driving?

Defensive driving protects us from what's happening around us.

The goal of defensive driving is to avoid the crash entirely.



Video Review

- 1. What were the conditions?
- 2. Was this the first crash?
- 3. What were the factors in this crash?
- 4. Was this preventable?

Keys to Being a Defensive Driver

- Take responsibility for what you can control
- Don't blame weather, road, traffic or other drivers when something happens
- Look at collisions and violations from point of view of this crucial question:

Preventable Collision

One in which the driver failed to do everything <u>reasonable</u> to avoid it.

- Facts show majority of collisions are preventable
- More important same facts show violations are cause of most collisions

Defensive Driving Concepts

- 3 key defensive driving concepts:
 - 1) Scanning
 - 2) Communicating
 - 3) Cushion of Safety

Each is critical to collision prevention

Scanning Anticipating Hazards

- Scan road ahead and behind
- In town scan to next intersection or block
- Rural and interstate driving, scan ahead to next overpass, hill or curve
- Check mirrors every 3 5 seconds

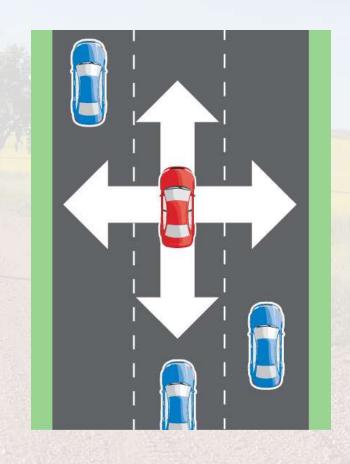
Communicating

- What methods can we use?
- Signaling
- Tapping the horn
- Using 4-way flashers
- Lane position



Cushion of Safety

- How can you check it?
- Do a second count on the vehicle ahead
 - 3 seconds small vehicle
 - 5 seconds truck
- Scan mirrors every
 3 5 seconds



When To Add Time/Distance

- For every adverse condition, add another second of following distance
- In rain add 1 second
- In rain and low visibility add 2 seconds
- For speeds over 65 mph add 1 second

In poor conditions ask: Should I be driving?

Braking: Perception Distance

- The distance your vehicle travels
 from the time you spot a problem to
 the time you decide to do
 something about it.
- On average this takes ¾ of a second.



This distance is not affected by the type of vehicle/equipment you are operating.

Braking:Reaction Distance

- The distance your vehicle travels while you move your foot from the accelerator to the brake pedal
- Average reaction time is about ¾ of a second



In a large truck, this accounts for an additional 60 ft. when traveling at 55 mph

Braking: Brake Lag Distance



- Distance your vehicle travels after brake is applied, but before air brakes are actuated
- On dry pavement at 55 mph this adds about 32 feet to stopping distance

Braking: Braking Distance



 Distance vehicle travels after the brakes have started to work, until vehicle comes to a complete stop

Effect of Vehicle Weight on Stopping Distance

- The heavier the vehicle, the more work brakes must do to stop it and the more heat they absorb
- Brakes, tires, springs and shock absorbers on heavy vehicles are designed to work best when the vehicle is fully loaded
- Empty trucks require a GREATER stopping distance

Distracted Driving











Keep your eyes on the road.

Pull over to read directions.

Put your phone in "Do Not Disturb" mode.





Keep your phone out of reach.

Make all adjustments before driving.

Don't reach for items while driving.





Avoid phone calls, even hands-free.

Stay focused on the road.

Keep your emotions in check.





Turn down your radio

Listen out for hazards

Put your phone in "Do Not Disturb" mode

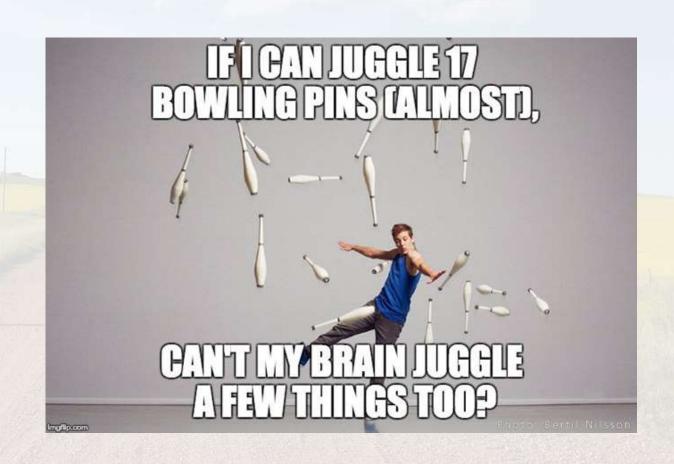


Distracted Driving

• The typical **reaction time** without **texting** was between one and two seconds. While **texting** it increased to four to six seconds, regardless of whether the driver was typing or reading a text.



Can the brain multitask?

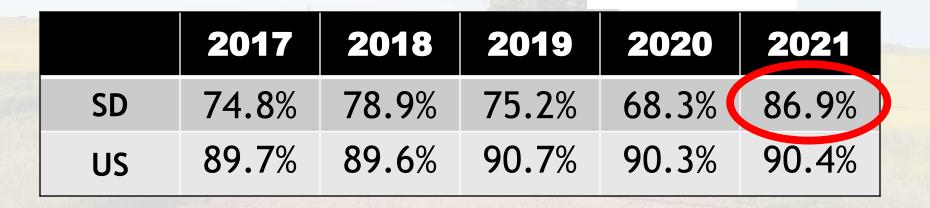


Can the brain multitask?

NO

Physiological studies show that we can do multiple things while our brains quickly shift from one task to another. However, the quality of each high-level task will suffer.

Seatbelt Use



Largest Increase Nation Wide of 18.6%!!

SD Seat Belt Use June 2022, report prepared in cooperation with SD DPS, Office of Highway Safety, US DOT, NHTSA

Airbags & Seatbelts

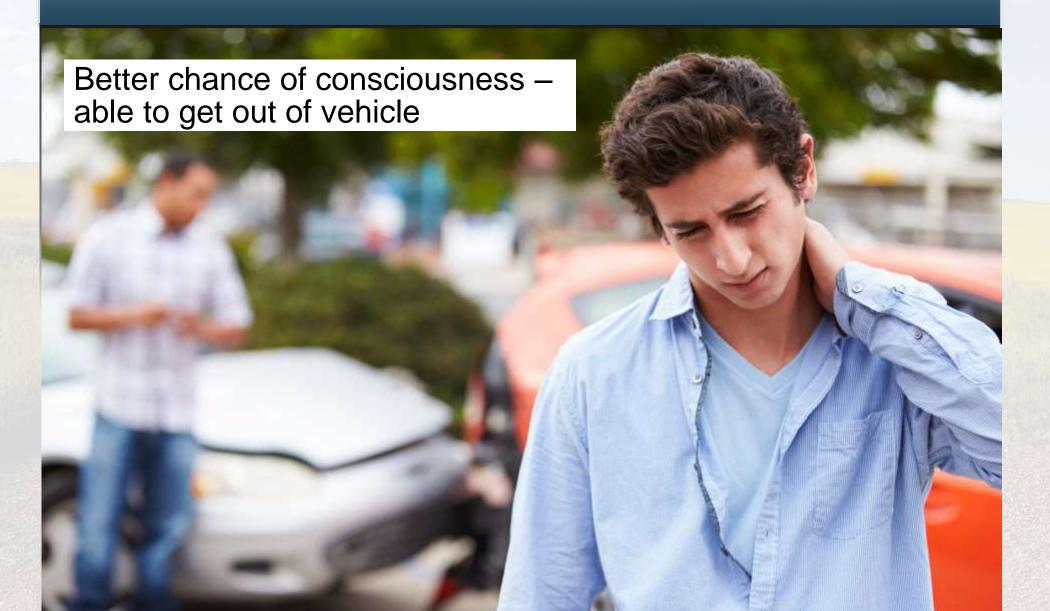
- Excellent safety systems on vehicles but not 100% effective in all types of crashes
- Very effective for rollovers
- They reduce injuries and fatalities by 50%

Defensive driving is key to preventing the crash. Don't depend on safety equipment to save you.











Blind Spots



Intersections

SDCL 32-26-13

Right-of-Way

 When two vehicles approach or enter an intersection at approximately the same time, the driver of the vehicle on the left shall yield the right-of-way to the vehicle on the right.

Law only states who shall yield the right-of-way and does not give it to anyone

Delayed Acceleration Technique



40% traffic crashes occur at intersections



When stopped at an intersection and the light turns green



Delay acceleration by 2 seconds



Scan the road before accelerating

Defensive Driving Tips

- Never drive when under the influence of drugs or alcohol
- Manage your time
- Monitor speed continually
- Wear your seat belt
- Be alert rest when needed



WINTER IS COMING!!!



QUESTIONS?



More Information/Resources

Safety Benefits Inc.
605-334-9567 | (888) 313-0839
www.safety-benefits.com

Defensive Driving In the Commercial Vehicle

Jeff Lanning

Loss Control Representative



37th Annual North Central Local Roads Conference Rapid City, SD - October 18-20, 2022