

**ALTRANS**  
*Gets You Places*

**UAA**  
THE UNIVERSITY OF  
ALABAMA IN HUNTSVILLE



## FY 2020 Simulator Training

Presenter: Dr. Mary

# How topics of the training are selected?

## ▶ Analyzing Crash Data for Transit Buses in Alabama

Primary Contributing Circumstances	Percentage
Followed too close	28.57
Over Speed Limit	14.29
Misjudge Stopping Distance	14.29
Unseen Object/Person/Vehicle	14.29
Improper Backing	14.29

\*Transit Bus Crashes: Alabama Integrated Crash Data 2014-2018

## ▶ Surveying for the Key Factors to Problem Solve

# Current Trainings

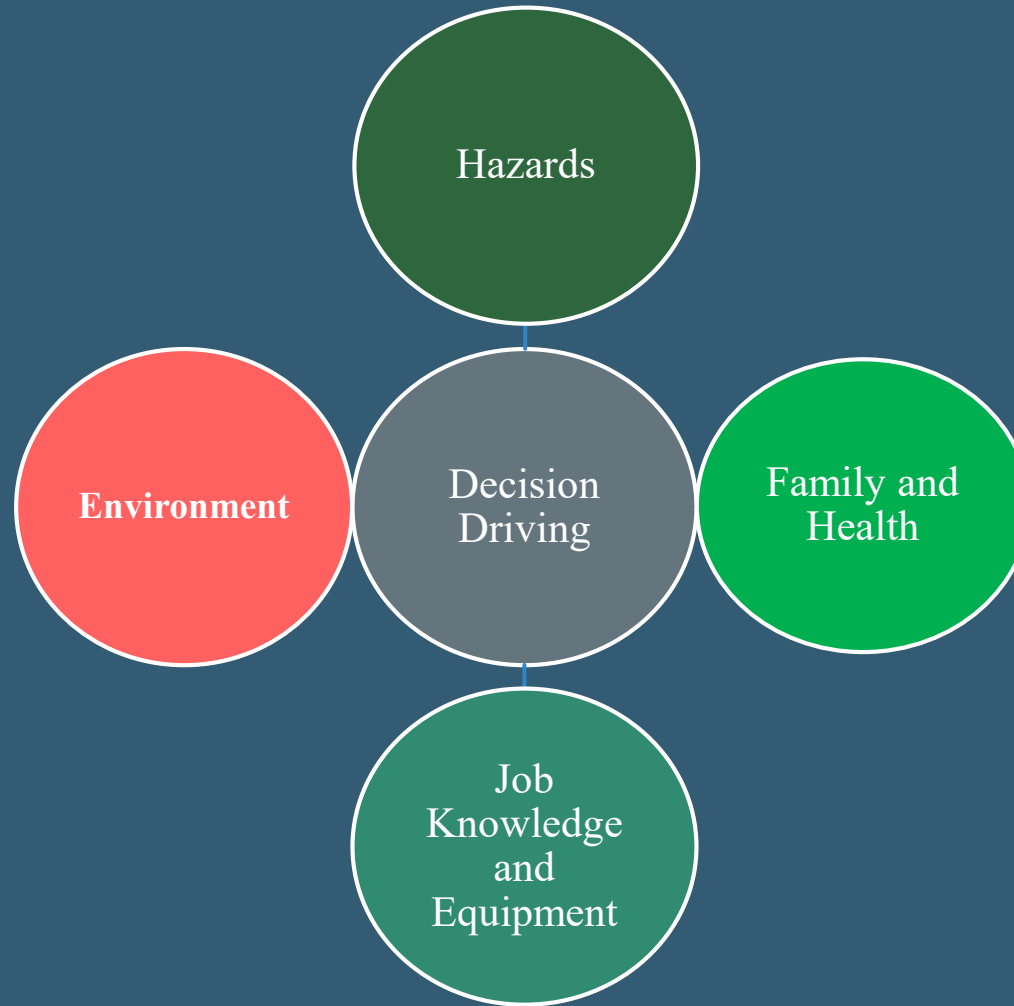
- ▶ Defensive Driving
- ▶ Close Quarter Maneuvering
- ▶ Preventive Maintenance and Hazardous Driving



# How Covid-19 Changed Our Routines?



# The Circles of Influence



# Defensive Driving



# Close Quarters Maneuvering

- ▶ Backing and slow forward maneuvers
- ▶ Collisions with stationary objects
- ▶ Operating in confined spaces



# Close Quarter Hazard Identification

- ▶ Sides: Backing in, other vehicles on both sides
- ▶ Front: Don't forget the car in the hard to see area to the right!
- ▶ Back: What is in the area behind me?





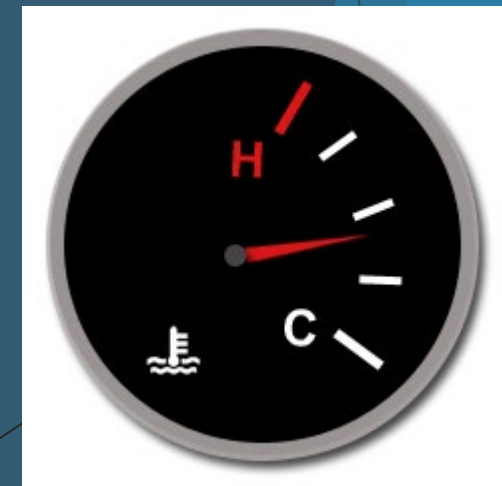
# Close Quarters Maneuvering (Cont.)

Minimizing Risk using GOAL



# Vehicle Maintenance and Hazardous Driving

- ▶ Knowing dashboard lights/Indicators
- ▶ Overheated vehicle
  - ▶ Pull off at safe location
  - ▶ Turn engine off
  - ▶ **Do not** open the hood until gauge is on cool
  - ▶ **Do not** open radiator cap
  - ▶ Calm passengers



# Vehicle Maintenance and Hazardous Driving (Cont.)

## ▶ How to Drive Through a Tire Blowout

- ▶ Keep a firm grip on the steering wheel.
- ▶ Do not slam on the brakes.
- ▶ Let your car slow down gradually.
- ▶ Pull to the side of the road once you have slowed to a safe speed.
- ▶ Activate your emergency flashers.
- ▶ Maintain a safe distance with the road.
- ▶ Make sure to explain to passengers and calm them down.



# Vehicle Maintenance and Hazardous Driving (Cont.)

## ▶ Windy Driving

- ▶ Keep both hands firmly on the wheel.
- ▶ Drive below the speed limit.
- ▶ Turn on your headlights and maintain a safe distance from the vehicle in front of you.
- ▶ Be constantly on the lookout for foreign objects.



# Vehicle Maintenance and Hazardous Driving (Cont.)

- ▶ Rainy Driving
  - ▶ Importance of checking tire tread before driving
  - ▶ Think about the weather
  - ▶ Slow down
  - ▶ Use headlights and wipers
  - ▶ Avoid hard braking
  - ▶ Watch for standing water
  - ▶ Don't brake when hydroplaning
  - ▶ Ventilate your bus



# Future Trainings

- ▶ Night and Fog Driving
- ▶ Managing intersections
- ▶ Fatigue and Impaired Driving



Thank You For Your Attention