Alberta Occupant Restraint Program

Engineered Life Space & Seat Belts
Session Outline

Provide facts on:
• Engineered Life Space
• Collision dynamics
  • Types of collisions
  • How you are injured or killed in a collision
• How seat belts protect you and your family

View traffic safety video
“Accidents” have no reason, they are “acts of God” or “fate”. They are not predictable and not preventable.

“Collisions” have a cause. The outcomes are predictable and preventable.
The Grim Numbers Tell a Terrible Story

• Motor vehicle collisions are the leading cause of unintentional death and injury for all Albertans under the age of 30
• Every year in Alberta, over 350 people are killed in motor vehicle collisions and 20,000 are injured
Motor Vehicle Collisions
Four Main Types of Crashes

- Frontal
- Side
- Rear
- Rollover

In a crash, everything in the vehicle moves towards the point of impact
Collision Dynamics - Crash Severity Depends On:

- Speed of travel
- Direction or angle of impact
- Size of the vehicles involved
Collision Dynamics - The Ability to Survive Depends On:

- The engineered life space, plus
- The use of seat belts or child safety seats

If there is engineered life space left after the crash, the occupants have a chance of surviving IF they are wearing their seat belts.
**Seat Belts...**

- Keep you inside the engineered life space
- Distribute the force of the collision over safe areas of the body
- Reduce the risk of serious injury and death
Crash Examples - Intact Engineered Life Space

- In these crashes, people were killed
- The engineered life space was intact
- They would be alive if they had worn their seat belts
Crash Example - Seat Belt Effectiveness

- In this collision, the front seat passenger lived
- She was saved by her seat belt
There Are No Excuses...

- Seat belts are the single most effective lifesaving device available.
- You are twice as likely to survive a crash with a seat belt on.
- A seat belt reduces your risk of injury.
- It’s the law.
Video

Drive to Survive
If you’re not wearing your seat belt,

What’s holding you back?