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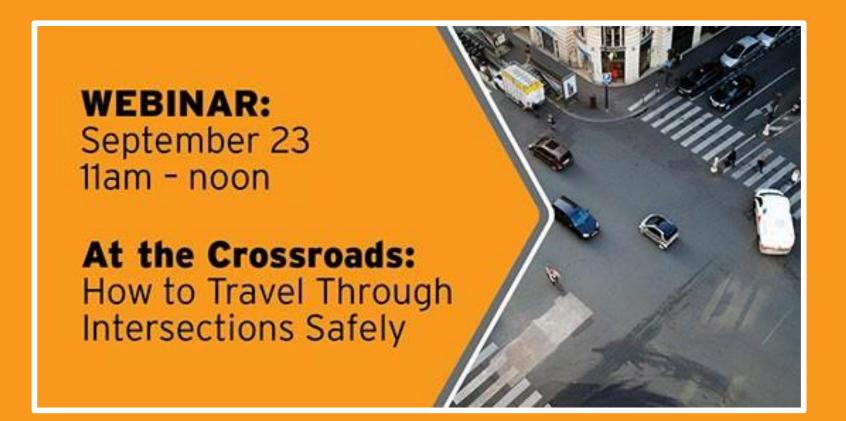
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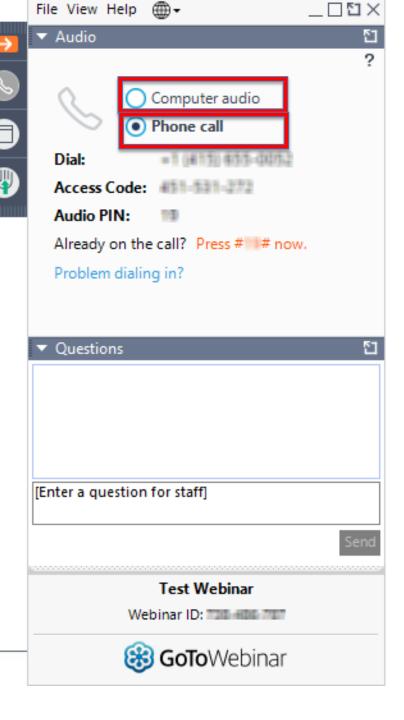


Audio instructions

Select "Computer audio" to use your computer's sound

OR

Select "Phone call" to dial in



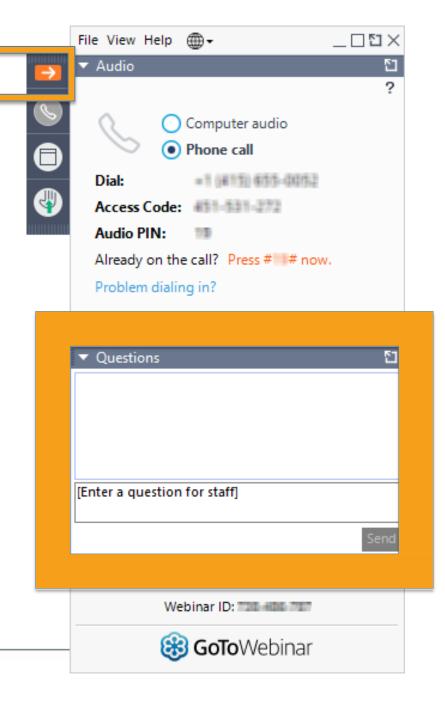


Asking questions

Click on "Questions" to expand the Questions pane

Then

Type your question to the moderator





Key Sponsor / Supporter

SafetyDriven.ca

About SafetyDriven

- Health & Safety Association for trucking and related industries
- Industry led organization
- Dedicated to improving safety operations and reducing workplace injuries and fatalities.

What does SafetyDriven offer

- Safety services
- FREE online resources
- Certificate of recognition (COR)
- Courses and training

Benefits:

- Team of safety professionals
- Custom safety program
- Reduce costly incidents



Today's webinar partner



Auto insurance Claims Driver licensing & ID Vehicles & registration Road safety



Driver licensing & ID

Get your licence so you can get on the road. Find out about learners, novice, and full licences.

Book your road test

Book driver licensing services

Get your driving record

Driver licensing & ID



Vehicles & registration

When buying or selling a vehicle, we have tips on registration, inspections, and how to transfer ownership.

Register a vehicle

Transfer ownership

Buy a used vehicle

Vehicles & registration



Auto insurance

Protect yourself and your family with the mandatory basic coverage or extended coverage.

Products and coverage

Listing drivers

Get an estimate

Auto insurance



Claims

Easily make a claim if you've been in a collision or suffered damage, theft or vandalism to your vehicle.

Report a claim

Check claim details

Find a network repair facility

Claims

Introducing today's presenters



Alex Lee
ICBC
Road Safety Program Manager



Angelina Robinson Road Safety At Work Client Relationship Manager



Rick Walters
Road Safety At Work
Road Safety Manager



Overview

- The importance of intersection safety
 - Current statistics, helpful info and tools
- How employers can help prevent collisions at intersections
 - Tools, practices, processes and resources
- How drivers / employees can help reduce risks
 - Tools, resources and practical driving tips
- Questions and answers



Alex Lee Speaking





Alex Lee ICBC
Road Safety Program Manager

Quick stats - ICBC



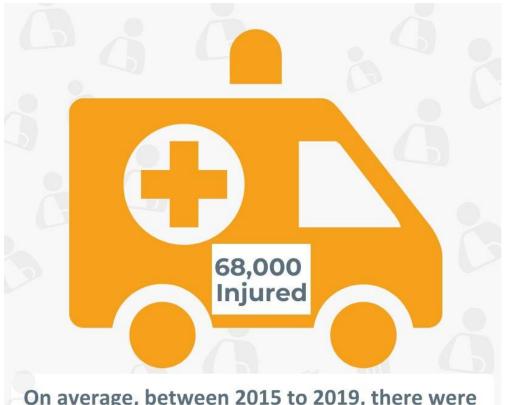
60%

of crashes take place at intersections

ICBC2020



Quick stats - ICBC

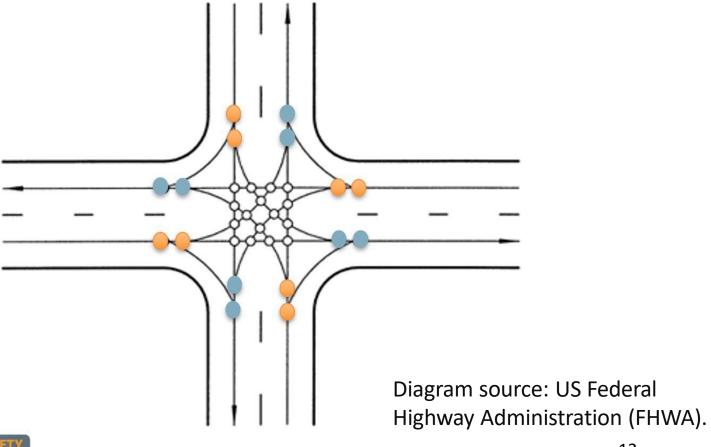


On average, between 2015 to 2019, there were 110,000 crashes at intersections in BC, resulting in 68,000 injured victims. (ICBC, 2020)



Intersection conflict points

32 conflict points



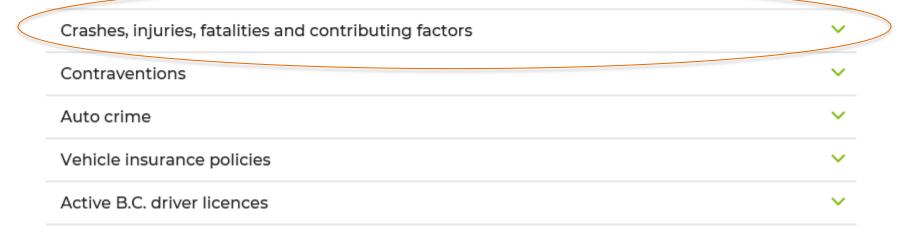


ICBC quick stats

Statistics

Find the latest statistics, open data sets and interactive tools.

Background on the data 🗟



https://www.icbc.com/about-icbc/newsroom/pages/Statistics.aspx



ICBC quick stats

Crashes, injuries, fatalities and contributing factors



Quick statistics

- Crashes at intersections [™]
- Crashes involving ^a: animals, cyclists, heavy vehicles, hit-and-run crashes, motorcycles, pedestrians, restraints and youth
- Injured victims ^a
- Fatal victims
- Fatal crashes
- Contributing factors
 - alcohol, drugs or medication, distraction, high-risk driving and driving too fast for conditions



ICBC quick stats

Intersections

Background on the data

Crash and injury data as of: Apr 4, 2020

Click here to view interactive crash maps for B.C. intersections

Fatality data as of: Apr 30, 2020

Crashes at intersections, by region and in B.C.

Region		2015	2016	2017	2018	2019	5-year average
Lower Mainland	Incidents	80,000	91,000	89,000	84,000	80,000	85,000
·	Injured victims	49,000	55,000	56,000	56,000	54,000	54,000
Vancouver Island	Incidents	11,000	12,000	12,000	12,000	11,000	12,000
	Injured victims	6,400	7,000	7,400	7,400	7,200	7,100
Southern Interior	Incidents	9,200	11,000	11,000	9,900	9,800	10,000
	Injured victims	5,200	5,900	6,300	5,700	6,100	5,800
North Central	Incidents	3,200	3,000	3,300	3,300	3,200	3,200
	Injured victims	1,400	1,600	1,500	1,700	1,700	1,600
British Columbia (total)	Incidents	105,000	115,000	115,000	110,000	105,000	110,000
·	Injured victims	61,000	69,000	71,000	71,000	69,000	68,000

Fatal victims in crashes at intersections, by region and in B.C.

Region		2014	2015	2016	2017	2018	5-year average
Lower Mainland	Fatal victims	29	38	42	32	38	36
Vancouver Island	Fatal victims	3	11	16	6	9	9
Southern Interior	Fatal victims	13	15	13	9	15	13
North Central	Fatal victims	4	9	14	11	8	10
British Columbia (total)	Fatal victims	49	73	85	58	70	67



ICBC reported crashes



Select a Filte	er
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Municipality	7
VANCOUVER	•
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Intersection Crash	
Yes	•
Parking Lot Flag	
No	•
Pedestrian Flag	



ICBC reported crashes

Quick statistics

- Crashes & casualty crashes ^a
- Crashes at intersections [™]
- Crashes involving ^a: animals, cyclists, heavy vehicles, hit-and-run crashes, motorcycles, pedestrians, restraints and youth
- Injured victims ^a
- Fatal victims
- Fatal crashes

Interactive tools

Crash maps by region

- Lower Mainland ^a
- Vancouver Island [□]
- Southern Interior [®]
- North Central ^a

Crash maps involving

- Cyclists ^{to}
- Pedestrians ^a
- Motorcycles [□]

Open data sets

Use multiple filters to view and extract all or a portion of the data.

Crashes [™]



ICBC regional crash maps

Quick statistics

- Crashes & casualty crashes ^a
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Interactive tools

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Crashes [™]



ICBC regional crash maps

Vancouver Island crashes - 2015 to 2019

Notes about the data:

ICBC data as of April 4, 2020. Casualty crashes are crashes resulting in injury or fatality. Property damage only (PDO) crashes are crashes resulting in material damage and no injury or fatality. Map excludes crashes in parking lots and involving parked vehicles. Therefore, adding figures for any municipality won't provide a complete representation of all crashes in that area. Crashes between intersections (mid-block) are plotted in the middle of the nearest two intersections. These mid-block crashes will appear as separate points on the road and will be grouped by the road name in the "Location" table (but excludes crashes at intersections along the road segment). Crashes on boundaries will appear for both cities. Maps only include crashes where sufficient location information was available to determine a latitude and longitude. Crash location information is self reported and not always verifiable. When comparing map counts with previous publications, counts may differ due to rounding, late reporting or corrections to the data.





ICBC intersection safety camera map

Intersection Safety Camera program

Helping to change dangerous driver behaviours at high-risk intersections across B.C.

Approximately 60 per cent of all crashes on B.C. roads occur at intersections.*

To help reduce the number of crashes at intersections, the police, the provincial government and ICBC operate the Intersection Safety Camera (ISC) program. There are 140 cameras in 26 communities across the province to deter drivers from running a red light. The cameras are placed at intersections based on the type, severity, and frequency of crashes at that location.

The goal of the ISC program is to prevent crashes and injuries and to save lives. Near each location, prominent signs warn approaching drivers about the enhanced intersection enforcement. With awareness, you can help reduce the risk of crashing.

*ICBC reported five year average from 2012-2016.

Speeding

Some of the ISCs are being upgraded to identify and ticket the fastest drivers. Thirty-five of the existing cameras will be activated to enforce drivers travelling at unsafe speeds at these intersections on a red, yellow or green light.

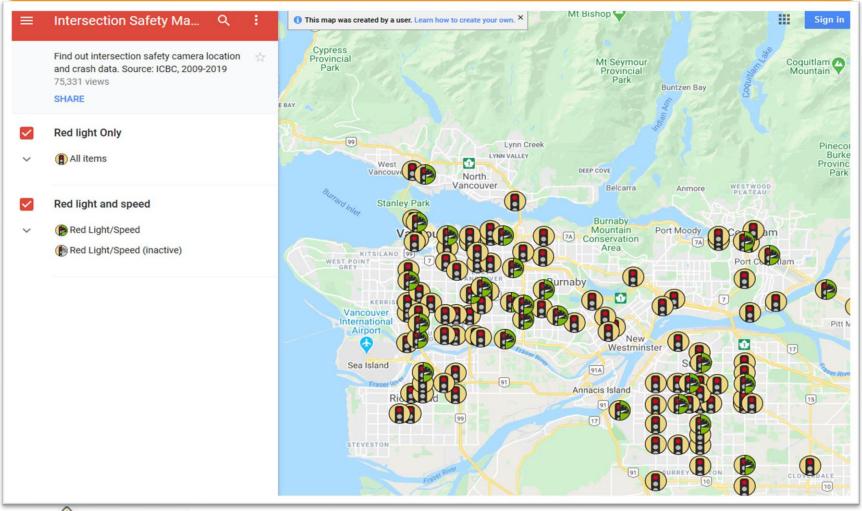
Open this map in Google Maps 2



https://www.icbc.com/road-safety/community/Pages/intersection-safety-camera-program.aspx

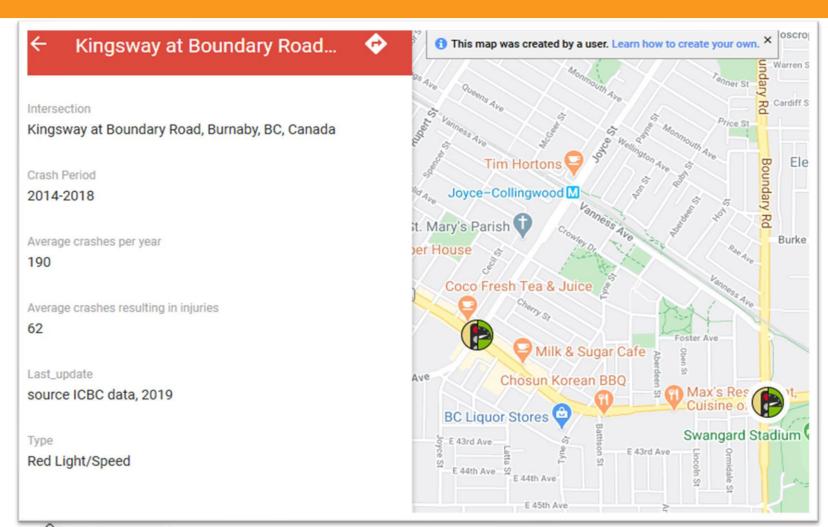


ICBC intersection safety camera map



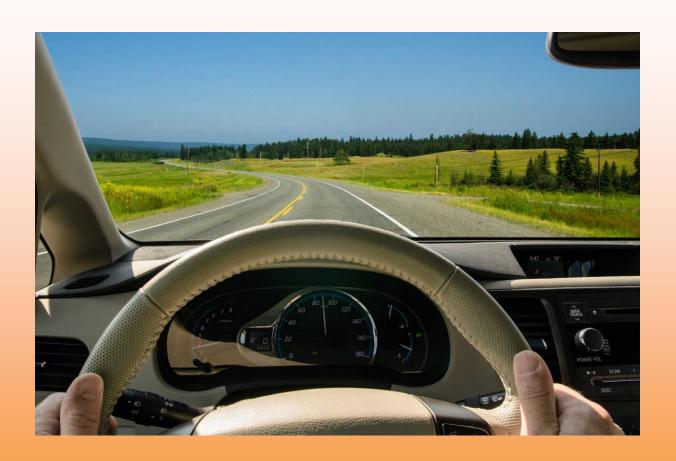


ICBC intersection safety camera map





Questions



Things employers can do

About 60% of crashes happen at intersections

- Locations with increased risk of harm
- But, opportunity to reduce risks

- 1. Manage journeys, plan trips
- 2. Optimize driving workspace
- 3. Collaborate to find solutions



Reduce driving to reduce risk





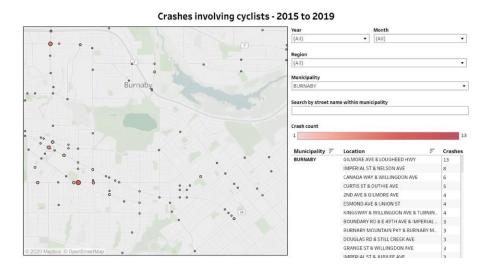


Journey Management Tool Kit



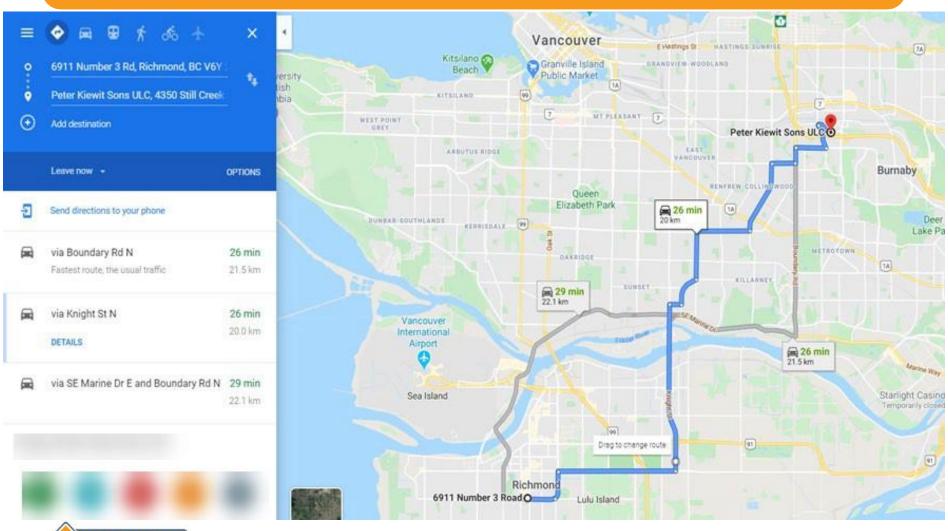
Plan routes to avoid high-risk intersections

- Use ICBC crash maps information
- Identify routes that avoid intersections that have a high crash frequency





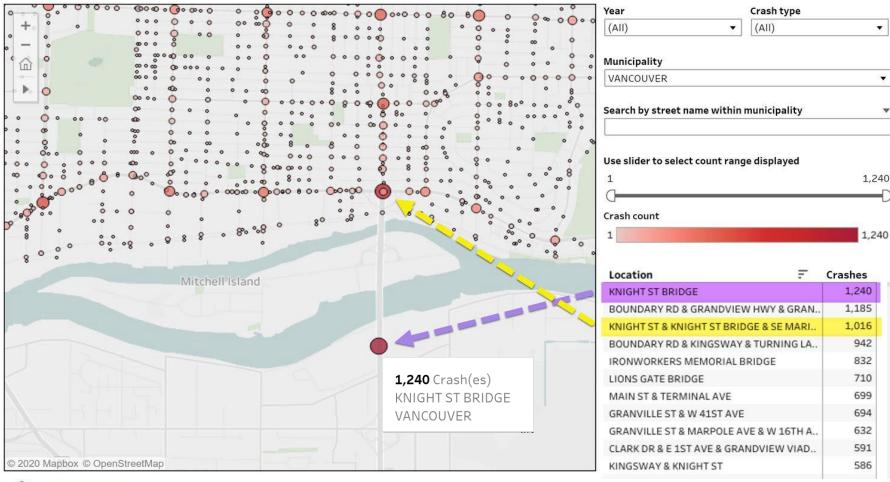
Plan safe routes



Lower Mainland crashes - 2015 to 2019

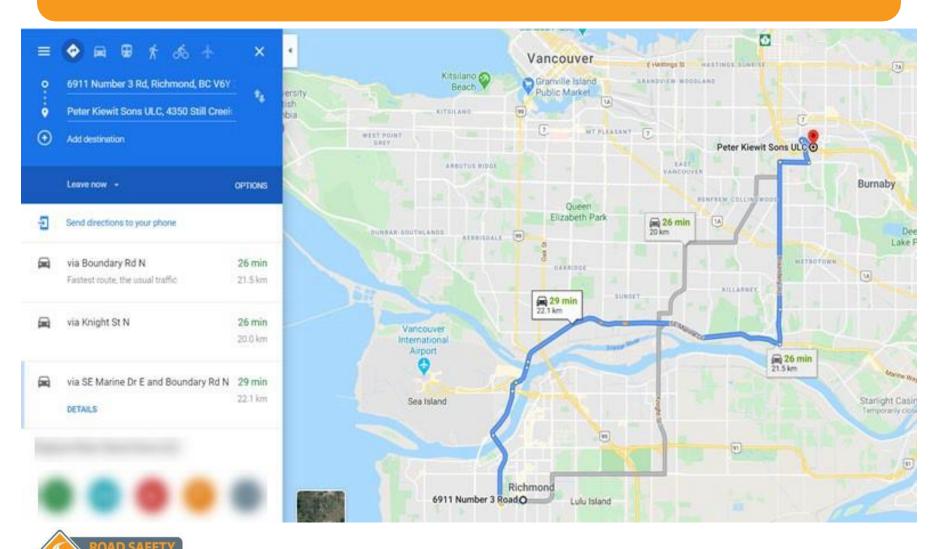
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Plan safe routes





Help employees plan safer trips

Build trip plans with *realistic travel times* and *clear directions*.





Help employees plan safer trips

- Adjust schedules to avoid peak traffic
- Avoid congested routes and road work
- Check websites for road work and closures











Talk about intersection safety



Road safety is smart business

Tailgate Meeting Guide: Intersection Safety

Intersections are points of significant traffic tension. A variety of traffic types – vehicles, pedestrians and cyclists – converge, pause and continue, often in a new direction. As traffic flow changes, humans must make split-second decisions and take precise actions to be successful. It's perhaps not surprising that about 60% of crashes happen at intersections¹. Use the information and resources below to lead a discussion about intersection safely, and what employees can do to avoid hazards and prevent Collsions.

Get the facts

- 1. Over the last five years, some 470,000 crashes have occurred at BC intersections¹.
- 2. On average, those crashes have resulted in 60,000 injured victims and 73 fatalities per year.
- 3. About 78% of those crashes occurred in the Lower Mainland.
- Since 2012, the number of intersection crashes has increased 50% to 120,000 in 2016.
 Most intersection-related offences result in a fine of \$167 and two (2) penalty points.
- The probability of pedestrian death increases exponentially with speed. At an impact speed of
 - · 40 km/h the probability of pedestrian death is approximately 20 per cent
 - . 60 km/h the probability of pedestrian death is approximately 78 per cent
 - . 80 km/h pedestrian death is virtually certain2.

Tips for preventing intersection collisions

When approaching an intersection

- · Pay extra attention when approaching every intersection. Treat each one as a driving-critical moment.
- Scan the intersection <u>before</u> you enter it so you are aware of the hazards cyclists, pedestrians, other motorists - and know what you will do to avoid them.
- . Check your mirrors and look around another driver might be making a move you need to know about.
- . If you did not see the light ahead turn green, you don't know when it will turn yellow. Be ready to stop.
- A yellow light means prepare to stop or clear the intersection. Proceed through a yellow light only if it's
- . If you are planning to make a turn, make sure you are in the correct lane well before the intersection.
- · Always use your turn signals before changing lanes.
- · Don't change lanes in an intersection.
- Passengers briefly suspend conversations so the driver can focus on safely getting through the intersection. Scan the surroundings and alert the driver to hazards you don't think they have noticed.

When stopping at an intersection

- . If you're the first car to stop- make sure you stop behind the stop line or crosswalk.
- . Plan for a gentle stop rather than slamming on the brakes "just in time". Come to a complete stop.
- Leave enough space between you and the vehicle ahead. You should be able to see the rear wheels of the vehicle ahead.

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- Talk about "preferred practices"
- Communicate and monitor changes
- Download the Tailgate
 Meeting Guide:
 Intersection Safety



Things drivers can do

- Before they're behind the wheel
- When they're on the road
- At the intersection



Critical reasons

National Highway Traffic Safety Administration (2010)

- Significant number of crashes are at intersections
- 800,000 intersection-related crashes:
 - 96% driver reasons
 - Less than 3% vehicle or environment reasons



More critical reasons

The most frequent critical reasons were:

- 1. Inadequate surveillance (44.1%)
- 2. False assumption of other's action (8.4%)
- 3. Obstructed view (7.8%)
- 4. Illegal maneuver (6.8%)
- 5. Distractions inside vehicle (5.7%)
- 6. Misjudgment of gap or other's speed (5.5%)



Before you get behind the wheel

Journey Management

The Journey Management Tool Kit includes the following resources:



Get Started

This section explains what journey management is and why it is important to workplace safety.

Read More



Put Journey Management to Work

Learn how to apply the three key steps of journey management, and how to build effective trip plans.

Read More



Establish A Check-In System

Understand the value of having a check-in system built into your journey management process.

Read More



Use TripCheck

Have your staff use this mobile-friendly tool to prepare for and document the trips they take. Use the handy email function to submit their travel plans to their supervisor and check-in contacts.

Read More



Resources

Access links and downloads for all of the journey management resources we offer.

Read More

Journey management

- Know where you're going
- Avoid risky intersections
- Set realistic travel times

Driver

Be fit for duty



Before you get behind the wheel

Know the rules of the road

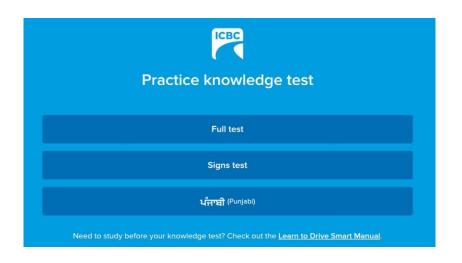
Drive Smart Manual





ICBC

Online practice test





Optimize driving workspaces

- Set the driver's position for the best view
- Adjust the seat
- Set the mirrors
- Adjust head restraint
- Adjust the seatbelt





Optimize driving workspaces



- Clean the windows inside and out
- Keep vehicles clutterfree and distraction-free



Optimize driving workspaces

Optimize Your Driving Workspace



Before You Go

Before you get in your vehicle, take some time to prepare.

Read More



Set Your Driving Position

Correct seating position improves your comfort, how well you can see and how well you can control your vehicle. It also helps you reduce driving stress and manage fatigue.

Read More



Make Necessary Adjustments

Adjusting the mirrors helps you see your total driving environment; adjusting the seatbelt improves comfort and security when you drive.

Read More



While You're Driving

Use these quick tips to optimize comfort and minimize stress and fatigue when you drive.

Read More



Resources

Use these links to download informative tools and resources, and access online videos.

Read More

Visit:

Optimize

Your Driving

Workspace

Tool Kit



On the road

- Watch your speed
- Check your lane position
- Be aware
- Watch for signs and traffic lights
- Make mental notes and estimates



On the road - Driving around trucks

Be Truck Aware





On the road

- Look 1.5 to 2 blocks ahead
- Scan left and right of your travel path
- Check your rear-view mirrors
- Repeat



Watch for

- Dangers
- Future dangers
- Changes



On the road – looking and seeing

90% of what we think we see is our brains filling in the blanks

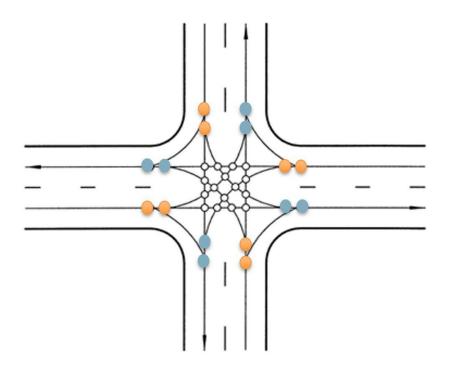
- Bias
- Memory
- Past experiences





At an intersection

Making turns



Waiting



Avoid distraction



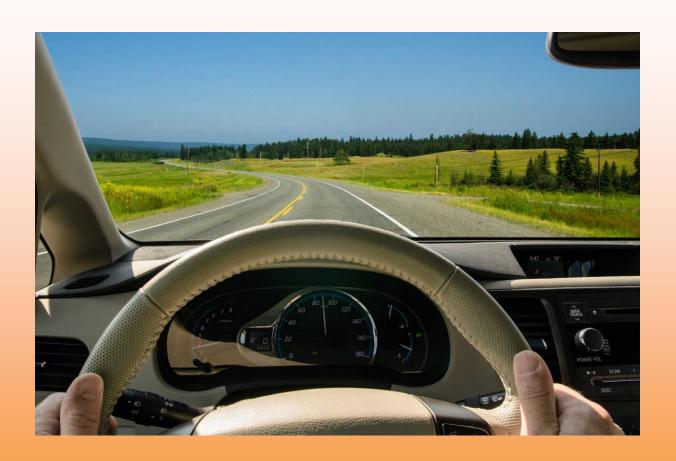


Summary

- The importance of intersection safety
 - Current statistics, helpful info and tools
- How employers can help prevent collisions at intersections
 - Tools, practices, processes and resources
- How drivers / employees can help reduce risks
 - Tools, resources and practical driving tips



Questions



Contact us with your questions



arobinson@roadsafetyatwork.ca

rwalters@roadsafetyatwork.ca



Visit our websites for more tools and resources



https://roadsafetyatwork.ca





Register now for our Next Webinar

Shift into Winter: Practical BC Winter Driving Tips

November 4, 2020

11 am - noon



Click to register

Thank You!

See next slide for a list of links to resources mentioned in this webinar

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Links to various resources mentioned in this webinar

Road Safety at Work

- Journey Management Toolkit
- <u>TripCheck</u>
- <u>Tailgate Meeting Guide: Intersection</u>
 <u>Safety</u>
- Optimize your Driving Workspace Tool
 Kit

SafetyDriven

- SafetyDriven Resources
- Trusting the Other Guy safety article
- Look Twice, Save a Motorcyclist's Life safety article

Insurance Corporation of BC (ICBC)

- ICBC Customer Relations form (ask a
 - question to ICBC)
- ICBC Intersection Safety Camera map
- ICBC driving guides
- ICBC Statistics main page
- ICBC Quick Stats Intersection crash

data

ICBC Interactive crash maps

Lower Mainland crash mad

Vancouver Island crash map

Southern Interior crash map

North/Central crash map

Note: Links have not been updated since this webinar was presented