# CRASH & INCIDENT INVESTIGATION

### PRIORITY # 1 IS

SAFETY OF ALL

AT THE SCENE

# WARNING

While it may not always be possible or necessary to utilize all of the techniques described here, anyone investigating accidents should be aware of these methods. Use these if there is time and it is appropriate.

# NEVER INSIST ON CONTINUING IF THE POLICE TELL YOU TO DESIST.

Shoot pictures from outside of police tape if necessary

#### TOOLS

Safety Vest

Gloves/BBP Kit

Cell Phone/Camera

Flash Light

Rain/Cold Gear

Lumber Crayon/Chalk

#### TOOLS

Clipboard/Paper

Pen & Pencil

Measuring Wheel or 100' Tape

Tape Measure

Compass

## **Chain of Events in a Collision**

Point of Possible Perception — should see potential?

Point of Perception – <u>did</u> see potential

Operator Response – ½ to ¾ second (if any) +

Equipment Response – w/air brakes ½ to ¾ second

Initial Engagement – Point of Impact (POI)

Maximum Engagement

Disengagement – separation starts?

Final Rest

GET

THE

FACTS

Wisconsin couple were treated for minor injuries at the local hospital emergency. After their Smart Car hit a squirrel on highway 8. The squirrel refused treatment and left the scene!

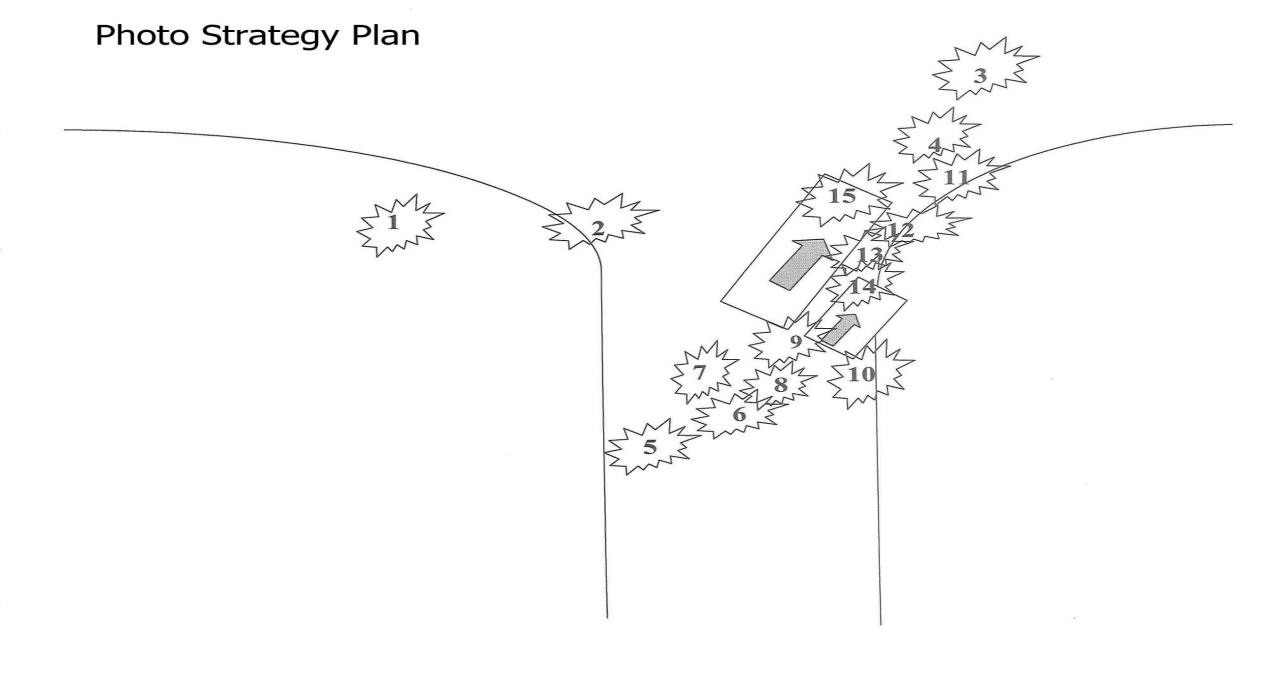


#### PHOTOS

PERMANENT VISUAL PROOF

GET VIN # / VEHICLE # / PLATE #

INTERIOR



# TRANSIENT EVIDENCE

Physical evidence that might disappear within a short time

MARKS FLUIDS DEBRIS



MHICH ONES

SKID

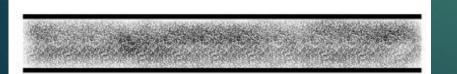
FINAL REST

TAKE PIX OF ALL SKID MARKS AT SCENE FIRST

#### Measurements

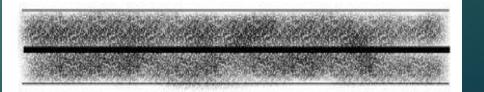












## SKID MARKS



ABS SKID

OFF SET SKID

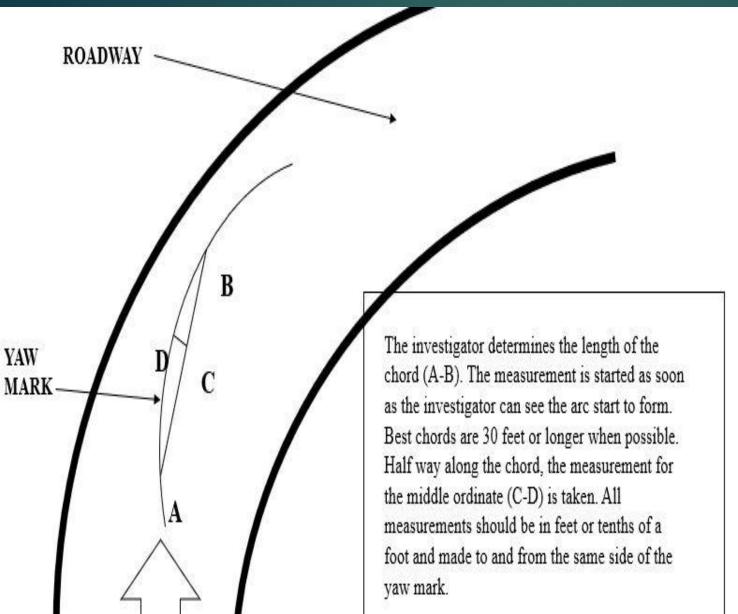
### SKID MARKS

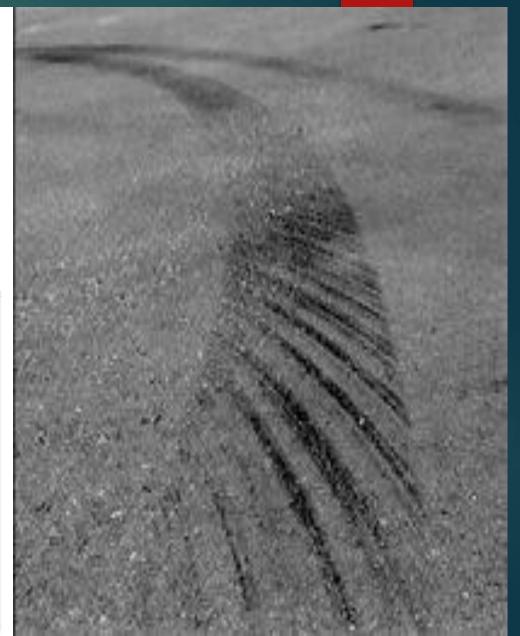


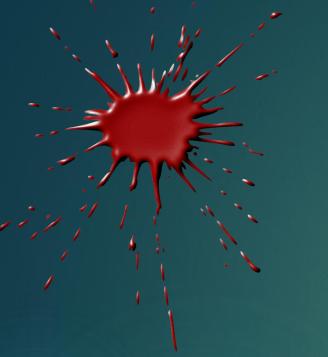
GAP SKID

SKIP SKID

### YAW MARK







## FLUIDS

# SPLASH DOWN



RUN-OFF



SOAK-IN



**PUDDLE** 



DRIBBLE TRAIL

# DEBRIS FIELD



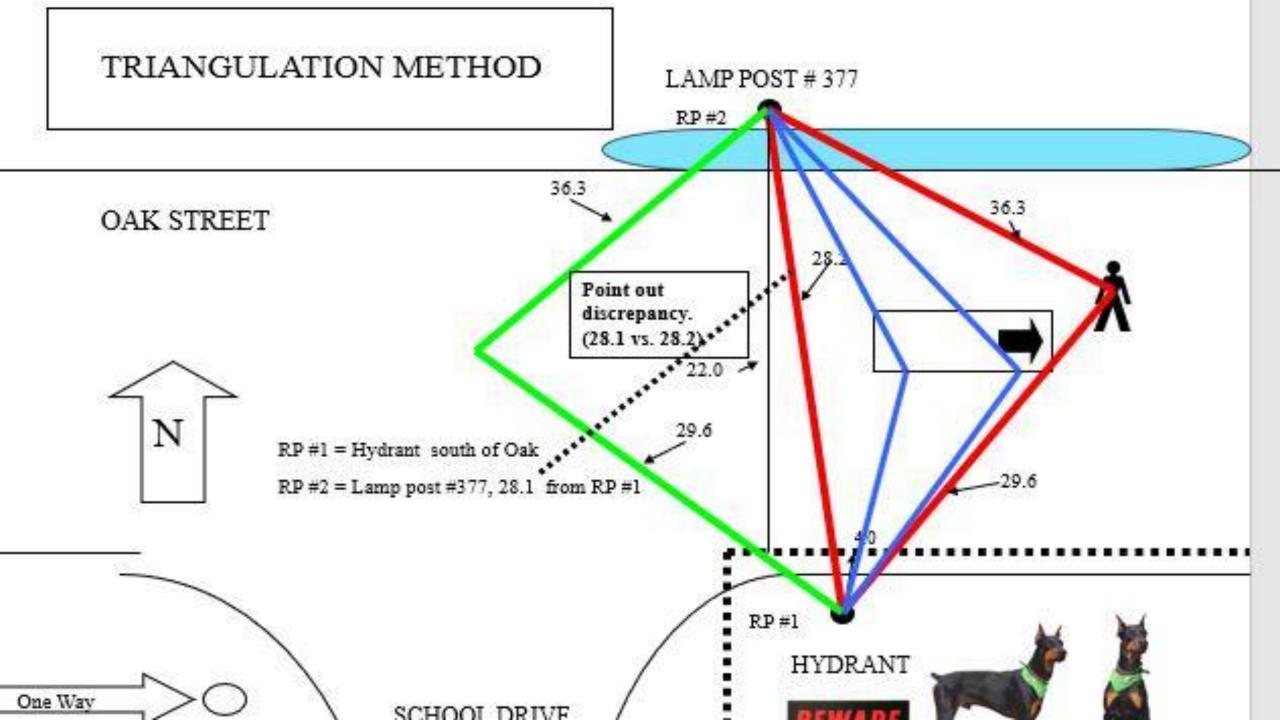
Reference Point	N	S	$\mathbf{E}$	W
	30			8
This is a chart that can made at the collision s unless they are made	site. Changes sl	hould never		
				E
	3 (		Ŷ.	18

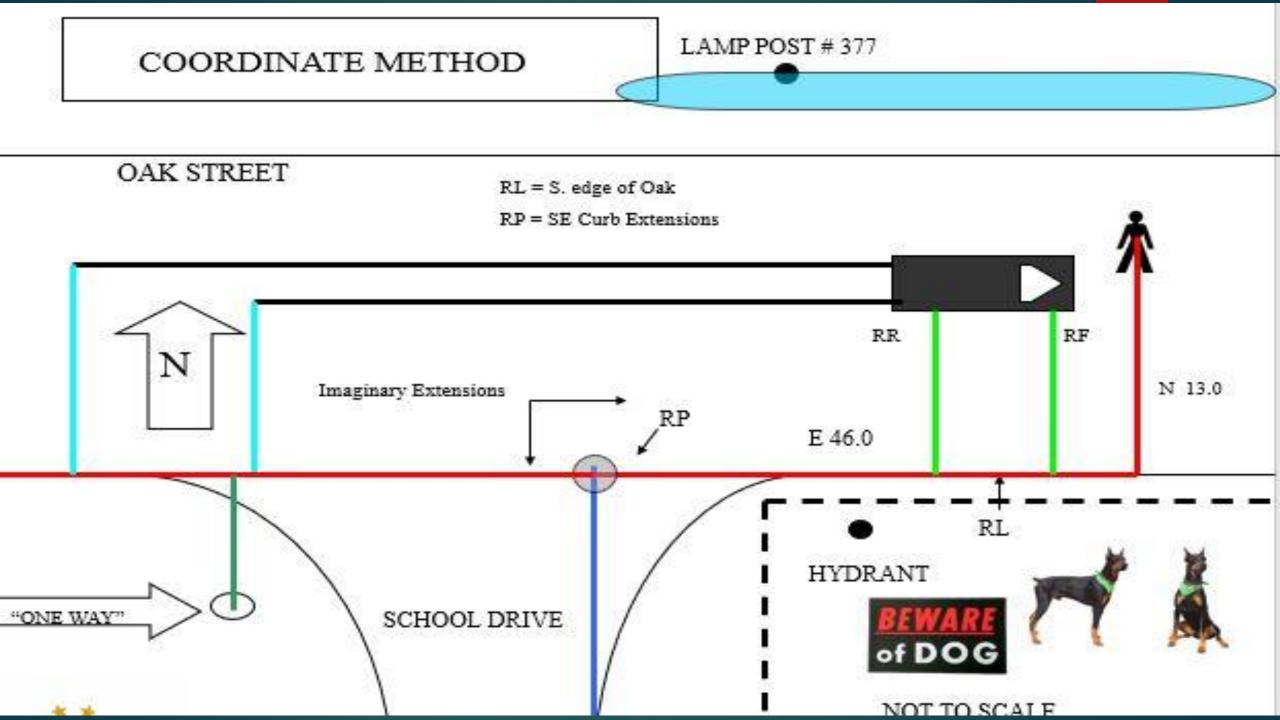
#### SKETCHES

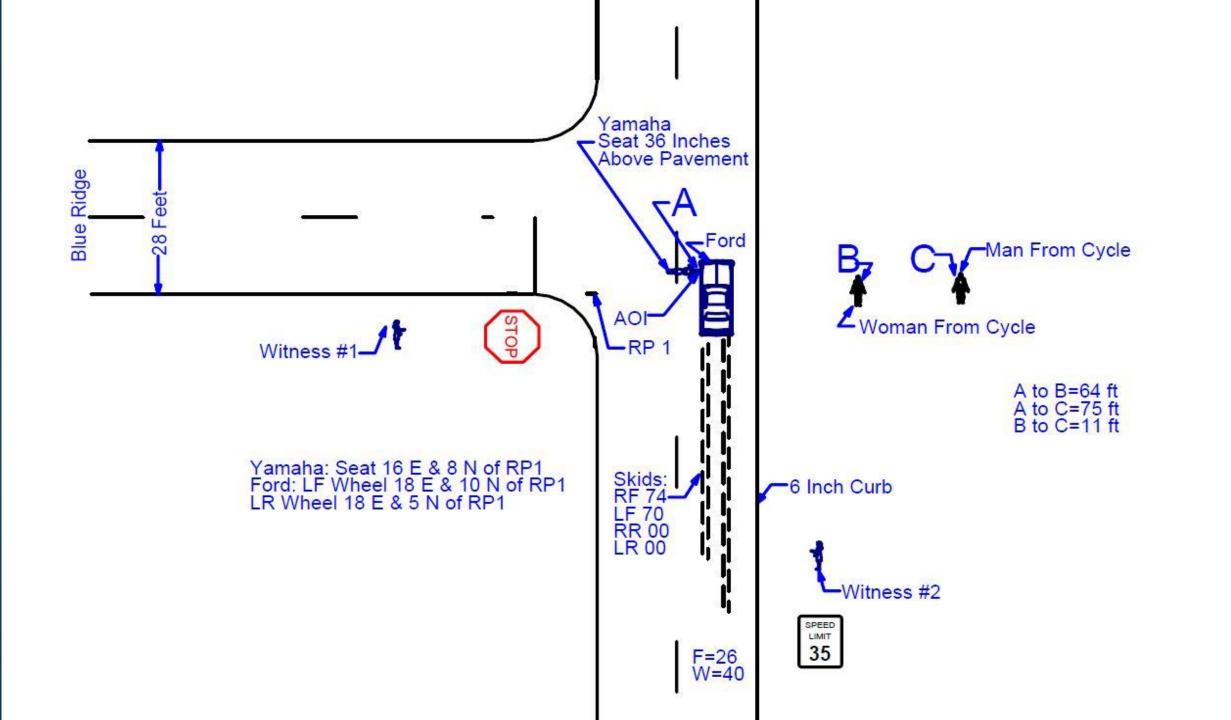
NOT TO SCALE

PART OF LEGAL FILE

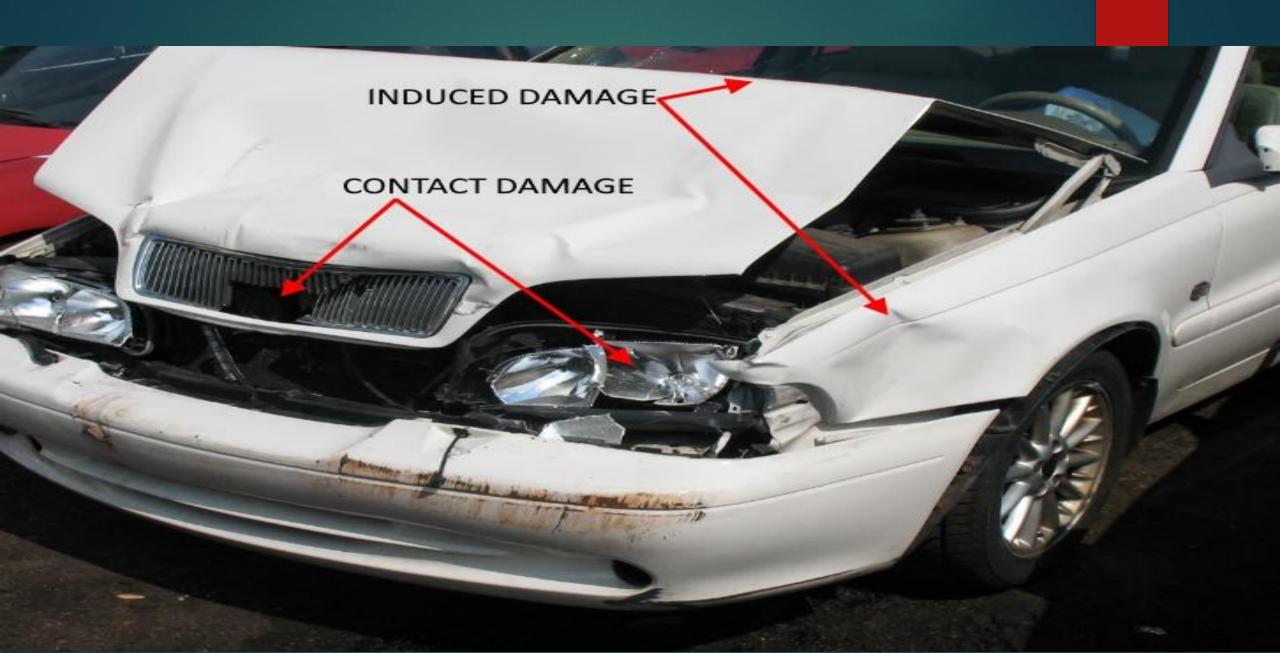
CONTENTS







# FIXED EVIDENCE



## FIXED EVIDENCE



EXTERIOR

HEAD

STRIKE



INTERIOR

HEAD

STRIKE



### DISTORTION

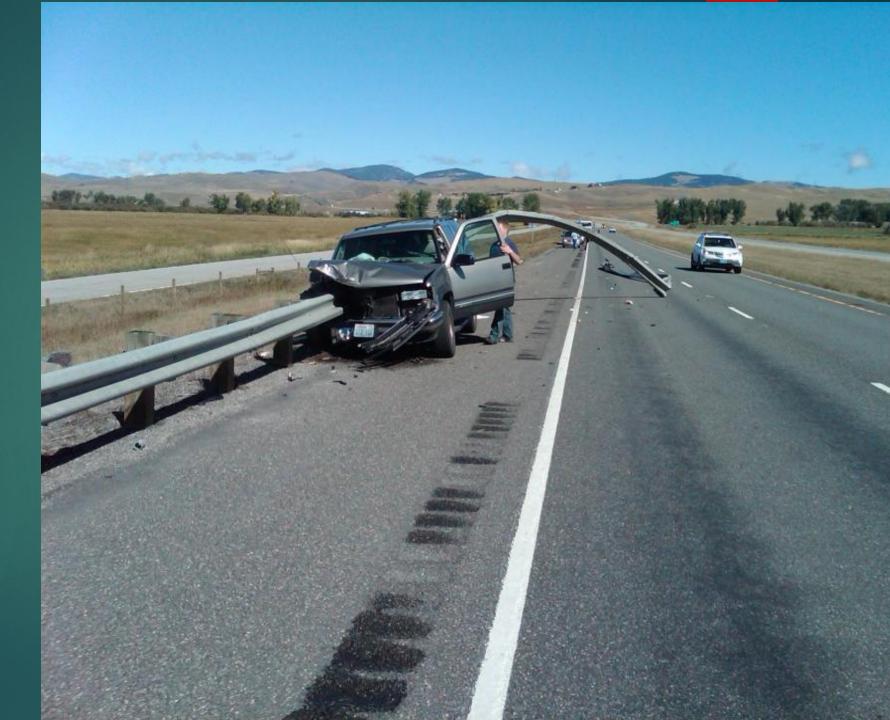
TWISTING

BENDING

STRESS RELIEF



# PUNCTURE



RUB-OFF

IMPRINT





RUB-OFF

IMPRINT



WEIRD

CONTACT

ABOUT

TO

INDUCE



# CONTACT

&

INDUCED



# CONTACT

8

INDUCED



#### INTERVIEWS

OPERATOR

PASSENGERS

**OBSERVERS** 

RESPONDERS

#### INTERVIEWS

AT SCENE

ASAP AFTER

NUETRAL LOCATION FOR HOSTILE

#### OBSERVER FACTORS

PERCEPTION V REALITY

EMOTIONS / INTELLIGENCE

**CREDIBILITY** 

#### OBSERVER FACTORS

ENVIORNMENT

PHSIOLOGY

PSYCOLOGICAL

#### DEALING WITH PRESS & PUBLIC

# ASSUME EVERYTHING YOU SAY WILL BE QUOTED

NO SUCH THING AS "OFF THE RECORD"

NO HYPOTHETICAL QUESTIONS

#### DEALING WITH PRESS & PUBLIC

#### **ALWAYS REPLY to PRESS AND PUBLIC:**

"The incident is currently under investigation and at this time we do not have all the facts"

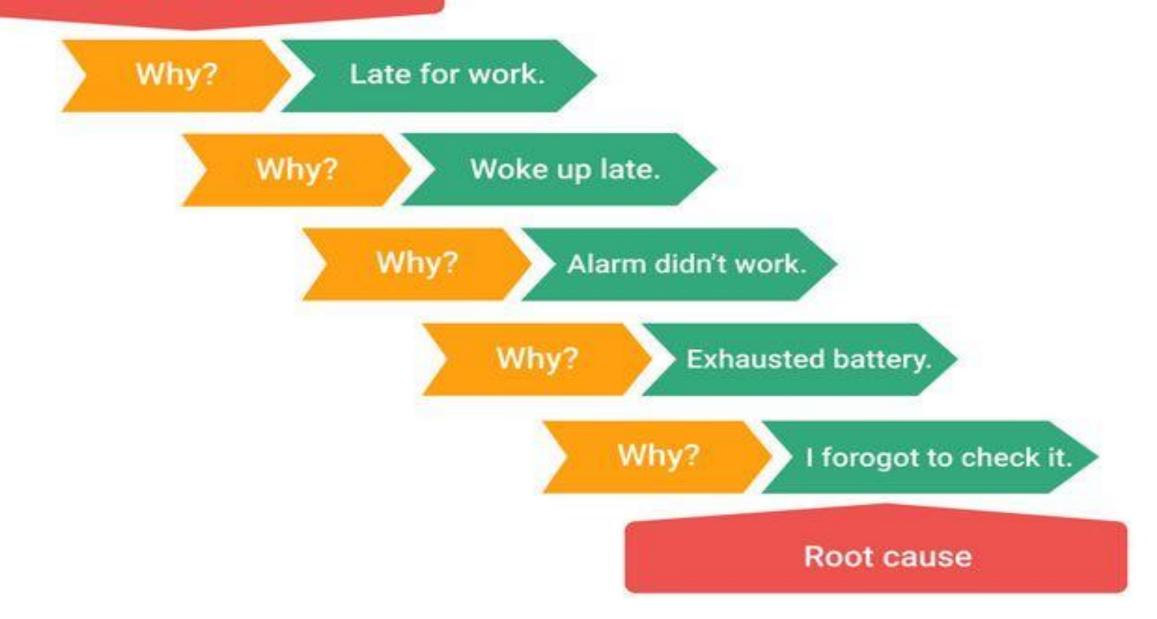
WAS THE MANEUVER NECESSARY Common Intervention Point Major Incident

Potential Intervention Point

30 Minor Incidents

> 300 Near Misses

Problem: Ran through a red light.



# NSC Preventability

An accident where the operator could have, but failed to identify a crashproducing situation soon enough to take reasonable action in time to avoid a crash.

# What standard of safe driving performance do you expect of your operators

# RESOURCES

National RTAP <u>www.nationalrtap.org</u>
Transportation Safety Institute

www.transportation.gov/tsi

Federal Transit Administration <u>www.transit.gov</u>

OR <a href="https://www.transit.dot.gov/regulations-and-">https://www.transit.dot.gov/regulations-and-</a>

guidance/safety/emergency-management

Homeland Security and-workplaceviolence

www.dhs.gov/school-

National Transit Institute

www.ntionline.com

CDC

https://www.cdc.gov/coronavirus/2019-ncov/community/organizations/bus-transit-operator.html

FEMA

www.fema.gov

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