

Speed-Measuring Device **Operator Training**

Instructor Manual CORE 240 260

CORE Course Overview

The purpose of the Core Module is to provide the student with the knowledge and skills necessary to perform speed enforcement activities.

- Learning Objectives
 - o Discuss the need for speed enforcement
 - o Discuss the benefits of effective speed enforcement
 - o Discuss absolute and basic speed laws
 - o Discuss the safety considerations as they apply to speed enforcement
 - o Explain the elements of a speed enforcement tracking history
- Guided discussion to assess learning

Materials

- Instructor manual, participant manual, presentation slides
- Copy of agenda/schedule, flip-chart, markers

CORE COURSE OVERVIEW	3
COURSE INTRODUCTION	4
WELCOME	5
INTRODUCTIONS AND EXPECTATIONS	6
FACILITIES AND LOGISTICS	8
COURSE GOAL	12
MODULE CONTENT	
PRETEST (OPTIONAL)	
PURPOSE OF SPEED ENFORCEMENT	_
DRIVING CONTINUUM	17
SPEEDING-RELATED FATALITIES BY ROADWAY FUNCTION	22
SPEED LAWS	24
SPEED LAWS	26
CRIMINAL V. CIVIL VIOLATIONS	28
SITE SELECTION	29
SITE SELECTION CONSIDERATIONS	31
SAFETY CONSIDERATIONS	33
TRACKING HISTORY	34
TRACKING HISTORY	36
VISUAL OBSERVATION	38
ESTIMATION OF SPEED	40
AUDIO CONFIRMATION	43
UNIT CONFIRMATION	44
SUMMARY AND SECTION REVIEW	45



COURSE INTRODUCTION

Estimated time for Chapter 1: 30 Minutes

CORE

>> Contents

260

>> Objectives

80

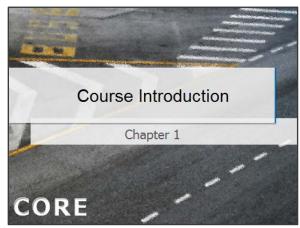
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20

Welcome	5
Introductions and Expectations	6
Facilities and Logistics	8
Course Goal	12
Module Content	13
Pretest (Optional)	14

WELCOME





Slide 1. Slide 2.

Ideally, instructors should have distributed The Speed-Measuring Device Operator Training Participant manuals at least two weeks prior to the first day of class. Make sure each student has a copy and issue replacements if necessary. If the manuals have not yet been distributed, do so now.

Introduce yourself and welcome students to Speed-Measuring Device Operator Training. Stress the importance of open communication, good feedback, and student participation.

Welcome to Speed-Measuring Device Operator Training!

9/2018

INTRODUCTIONS AND EXPECTATIONS



Slide 3.

Instructor Introductions

Introduce yourself by providing:

- Name
- Title
- Organization
- Highway safety experience

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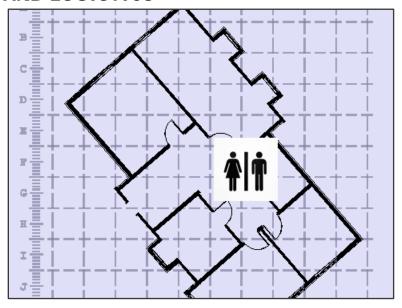
Slide 4.

Have participants introduce themselves by providing:

- Name
- Agency

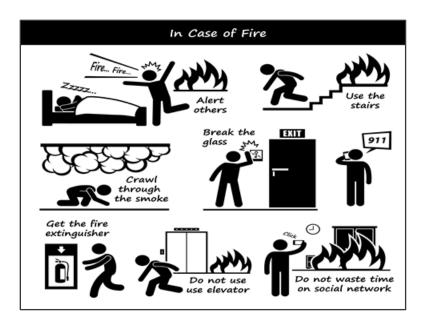
• Role
 What is one expectation or issue you would like to discuss OR question you want answered?

FACILITIES AND LOGISTICS



Slide 5.

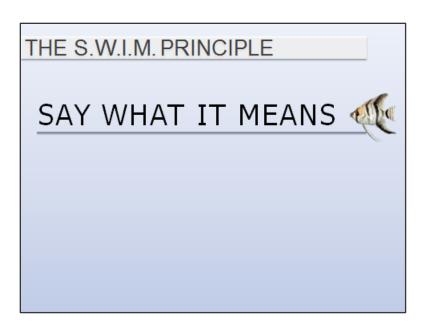
Take a few minutes to describe the facilities and logistics of the location for those who may be unfamiliar with the set-up. Include directions to restrooms, the vending machines, and/or location of refreshments.



Slide 6.

Discuss building layout, including: emergency exits, fire extinguishers, fire alarm pull stations, and meeting area in case of a building evacuation.

would be to dial in case of emergency (i.e., 911 vs. 9-911)



Slide 7. -

SWIM Principle: As with any agency or organization, the use of acronyms, abbreviations, and jargon is common.

Encourage participants to stop and ask for clarification or explanation if they do not understand a term or phrase presented during this course.

emember to Say What It Means!

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Slide 8.

Module and chapter structure: The modules and chapters of this training are designed to be presented in sequence, with most content building on the information offered in previous lessons. Each module and chapter in your book consists of curriculum, PowerPoint slide images, discussions/activities, and supplemental materials that are designed to encourage interaction among participants.

Delivery of content: The chapters for this training are designed to encourage interaction among participants. Included in the guided portion of the lessons are group discussions, interactive questions, hands-on experience and numerous instances where participants are encouraged to share their own experiences.

"Tour Your Manual": Make sure to direct participants to sections and let them look through the manual to see the tabs, resources, etc. Be certain to point out centrally-located resources used repeatedly throughout the course, if applicable.

COURSE GOAL

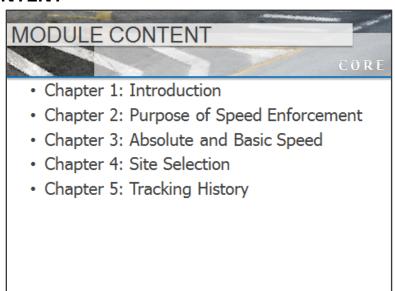


Slide 9.

Read course goal aloud:

The goal of the Speed-Measuring Device Operator Training is to provide knowledge and skills necessary to become more effective in detecting speeding vehicles and gathering evidence to support a charge of a speed law violation.

MODULE CONTENT



Slide 10. -

The purpose of the Core Module is to provide the student with the knowledge and skills necessary to perform speed enforcement activities.

In addition to the Introduction, this module contains four other chapters:

- Purpose of Speed Enforcement
- Absolute and Basic Speed
- Site Selection
- Tracking History

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CORE

PRETEST (OPTIONAL)

CORE Pretest (Optional)
Instructor should create and administer pretest using questions provided from the question bank.

PURPOSE OF SPEED ENFORCEMENT

260

Estimated time for Chapter 2: 40 Minutes

CORE

>>> Contents

>> Objectives

80

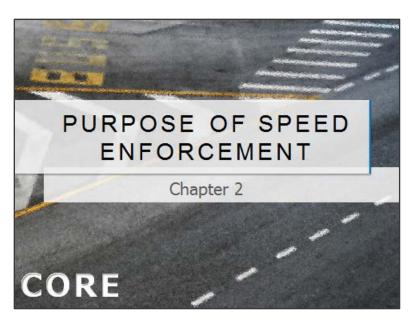
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Driving Continuum	17
Speeding-Related Fatalities by Roadway Function	22

By the end of this chapter, you will be able to:

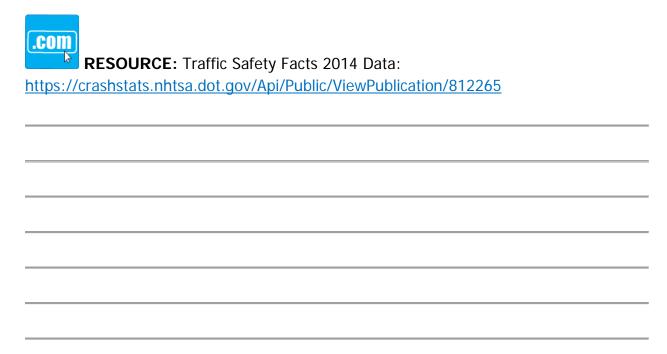
- Discuss the need for speed enforcement
- Discuss the benefits of effective speed enforcement



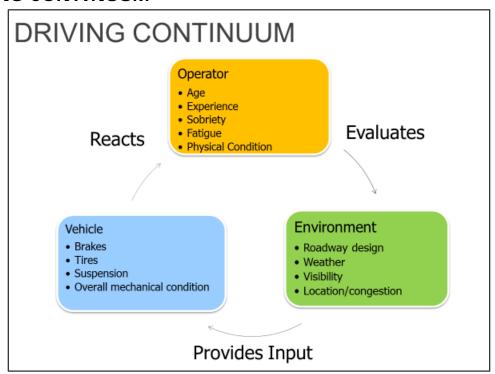
Slide 11.

Speeding is defined as exceeding the posted speed limit or driving too fast for conditions. Speeding is one of the most prevalent factors contributing to traffic crashes.

The purpose of this section is to provide an understanding of how speed enforcement helps reduce crashes and their severity in addition to reducing the number of fatalities and injuries caused by speeding.



DRIVING CONTINUUM

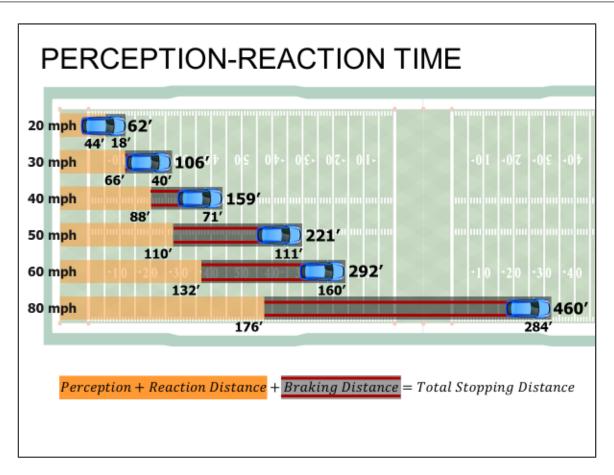


Slide 12. -

Higher speed overwhelms a driver's capabilities. Although vehicles and roadways can be designed to withstand high-speed traffic, human beings cannot be redesigned to handle increasingly higher speeds. A driver's capability is limited by speed. The faster a vehicle is driven, the less control the driver has over it. No matter how good a driver may be, some loss of control over the vehicle will be the result if the driver goes too fast. Safe vehicle operation is directly related to the "Driving Continuum", an interaction of operator, environment, and vehicle. Each element has different concerns which affect the others.

Referencing the slide on the previous page, ask students for examples of concerns below.

oncerns below.		
1) Operator concerns:		
 Age Experience Sobriety Fatigue Physical conditions 		
2) Environmental concerns:		
 Roadway design Weather Visibility Location/congestion 		
3) Vehicle concerns:		
 Brakes Tires Suspension Overall mechanical condition 		



Slide 13.

Stopping distance computed with a .75 drag factor. A brief discussion of drag factor and the coefficient of friction may be beneficial.

Drag factor and the coefficient of friction are related. Drag factor refers to the slowing of the whole vehicle while coefficient of friction refers to the slowing force where the tires make contact with the roadway. Drag factor is similar for most vehicles with four wheels. Motorcycles and heavy vehicles can be much different.



SUPPLEMENT 1: Stopping Distance Worksheet (10 Minutes)

NOTE: All supplements are optional and can be used to further class understanding.

A critical factor affecting an operator's capability is perception-reaction time:

Perception is the individual's recognition of a hazard, or the need to react.

Reaction is the individual's ability to respond to avoid the hazard.

Perception-reaction time can determine whether a crash will occur, or not. The shorter the perception-reaction time, the sooner the operator provides input to the vehicle and starts maneuvering to avoid the hazard.

The vehicle continues moving at the same speed toward the hazard during the time it takes the driver to perceive and react. Perception-reaction time becomes critical as speed increases. At slower speeds, the vehicle does not travel much distance during the time it takes the driver to react. At higher speeds, the vehicle will travel more distance during the same time interval placing it closer to the hazard before the driver starts providing the necessary inputs. Therefore, even fractions of a second are important.

The affect perception-reaction time and speed have on a driver's capability can be illustrated by braking. The average driver requires approximately 1.5 seconds to perceive, react, and apply the brakes. The brakes are not being applied and the vehicle continues to move at the same speed and on the same path toward the hazard during this 1.5 seconds. The distance the vehicle travels during the 1.5 seconds depends upon the speed. Perception-reaction time is only the beginning of the problem. Once the brakes are applied, time elapses before the vehicle comes to a complete stop. The faster the vehicle is moving, the longer it will take to stop. Vehicles moving at higher speeds have more momentum than vehicles at lower speeds. More braking force must be applied to vehicles traveling at high speeds:

- At 20 mph, the average vehicle will travel an additional 18 feet after the brakes are applied for a total stopping distance of 62 feet
- At 50 mph, the vehicle will travel an additional 111 feet for a total stopping distance of 221 feet
- At 80 mph, the vehicle will travel an additional 284 feet for a total stopping distance of 460 feet

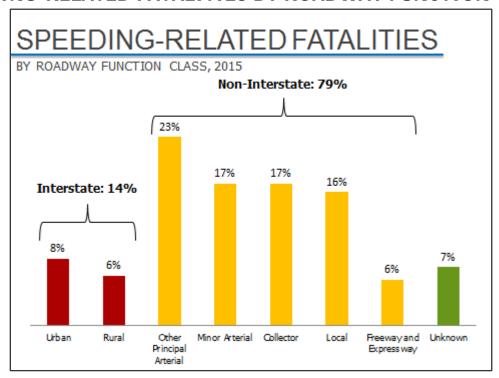
The total stopping distance increases greatly with just a slight increase in speed. The stopping distance at 60 mph (292 feet) is more than 44 percent longer than the stopping distance at 50 mph (221 feet) even though 60 mph is only 20 percent faster than 50 mph.

Hazards that can be avoided at low speeds may be unavoidable at higher speeds.

Human reaction time does not change for higher speeds.

Higher speed increases crash severity. When the driver's capability is overwhelmed by higher speeds, the chances of a collision are increased. The higher speed also increases the chances of death or serious injury.
The extent of crash damage depends upon the amount of energy present. The faster a vehicle is moving, the more kinetic energy it takes into a crash. The amount of kinetic energy increases greatly with only slight increases in speed. As the amount of energy increases, the chances of a fatality increase. A collision at 60 mph is 50 percent more likely to result in a fatality than one at 45 mph. A collision at 70 mph is four times more
likely to result in a fatality than a crash at 45 mph.

SPEEDING-RELATED FATALITIES BY ROADWAY FUNCTION



Slide 14.

Emphasize percentage of total interstate fatalities (14%) vs. non-interstate fatalities (79%).

RESOURCE: Traffic Safety Facts 2015, A Compilation of Motor Vehicle Crash
Data from the Fatality Analysis Reporting System and the General Estimates System:
https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812384

SUMMARY / REVIEW

- Driving Continuum
- · Perception-Reaction Time
- · Speeding Related Fatalities

Take 5 minutes to discuss the concepts just covered.



Estimated time for Chapter 3: 25 Minutes

CORE

>>> Contents

>> Objectives

80

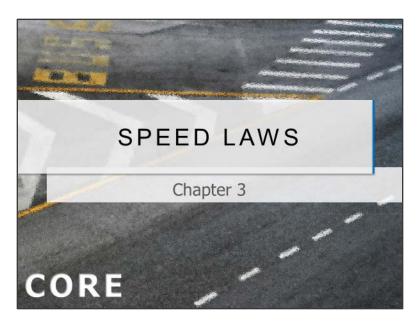
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20

Speed Laws	26
Criminal v. Civil Violations	28

By the end of this chapter, you will be able to:

 Discuss absolute and basic speed laws



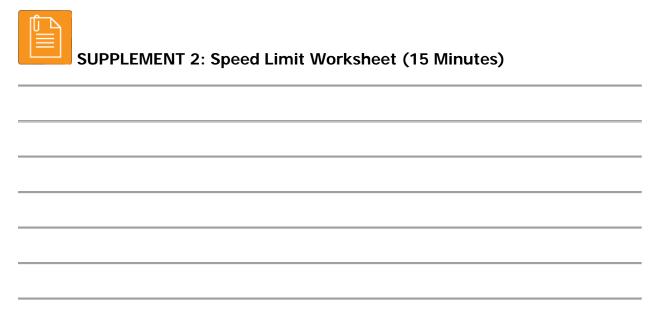
Slide 16.

The Foundation of Speed Laws and Rules

Effective speed enforcement requires an understanding of the speed laws. Students must know the *basic* and *statutory* speed laws.

The *basic speed law* establishes the familiar "reasonable and prudent speed for existing conditions" standard.

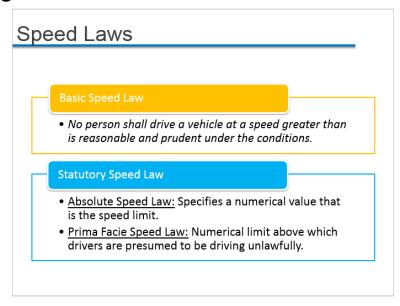
The *statutory speed law* establishes specific posted maximum – and sometimes minimum – speed limits.



Speed-Measuring Device Operator Training

CORE

SPEED LAWS



Slide 17. -

The establishment of speed limits is an act of the traffic law system. There are a variety of traffic laws and traffic control devices that regulate speed and it is important to be aware of how they are established, implemented, and enforced.

Most States have statutes that specify speed limits that generally apply for different types of roads unless otherwise posted. The legislators recognize that these statutory limits may not be appropriate for all locations and thus give the highway agency authority to establish limits above or below the general limits as warranted by conditions. The establishment of speed limits for specific road sections (zone) based on an engineering investigation is referred to as speed zoning and will be the focus of this module.

BASIC SPEED LAW

Most State motor vehicle laws include a basic speed law which encompasses the following premise: No person shall drive a vehicle at a speed greater than is reasonable and prudent under the conditions and having regard for the weather, visibility, traffic, and the surface and width of the roadway.

STATUTORY SPEED LAW

There are typically two types of statutory speed laws.

Absolute Speed Law

Specifies a numerical value that is the speed limit. Exceeding this value is always in violation of the law, regardless of the conditions or hazards involved. However, absolute speed limits lack flexibility, particularly in situations where traffic conditions vary widely. Approximately two thirds of the States have absolute speed limits.

Prima Facie Speed Law

Numerical limit above which drivers are presumed to be driving unlawfully.

Prima Facie speed violation allow violators the opportunity to demonstrate in court that their speed was safe for conditions at the time and not in violation of the basic speed law, even though they may have exceeded the numerical limit.

Approximately one third of the States have Prima Facie speed limits.

SI	JPPLEMENT 3: S	peed Laws		

CRIMINAL V. CIVIL VIOLATIONS

CRIMINAL VS. CIVIL VIOLATIONS - CORE - Criminal Violations - Require proof beyond a reasonable doubt and to a moral certainty. - Civil Violations - Require a mere preponderance of the evidence.

Slide 18. -

Provide an example of a criminal speed violation versus a civil speed violation.

If possible, instructor should add specific State laws and statutes.

These may vary from State to State.

- The difference is found in the burden of proof required to support the violation
 - Criminal violations require proof beyond a reasonable doubt and to a moral certainty

0	Civil violations require a mere preponderance of the evidence

Speed-Measuring Device Operator Training

CORE



Estimated time for Chapter 4: 45 Minutes

CORE

>> Contents

260

>> Objectives

80

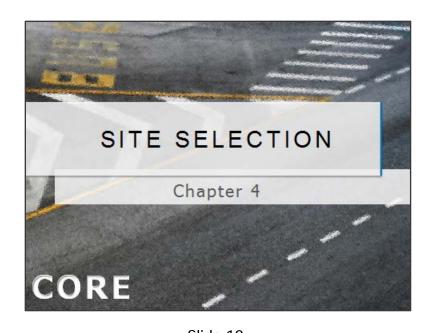
40-

20

Site Selection Considerations	31
Safety Considerations	33

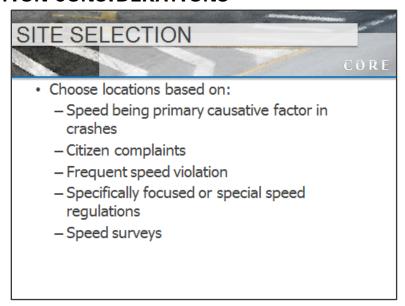
By the end of this chapter, you will be able to:

 Discuss safety considerations as they apply to speed enforcement



Silue 17.

SITE SELECTION CONSIDERATIONS



Slide 20. -

Explain selective traffic enforcement programs.

Briefly define interferences and that they may vary between specific speed-measuring devices.



Ask students:

What considerations do you take into account during site selection?

Several factors govern enforcement site selection. First, there must be a demonstrated need for speed enforcement. Enforcement should not be conducted at a site simply because it is convenient. Instead, choose a site that presents a speed-related traffic safety problem:

- Roadways where speed is a primary causative factor in crashes
- Areas or communities where citizen complaints have been received
- Locations where speed violations frequently occur
- Locations having specifically focused or special speed regulations (school zones, construction sites, etc.)
- Locations selected for speed surveys (to determine compliance, to establish speed limits, etc.)

Other considerations that can affect site selection:

Speed-Measuring Device Operator Training

9/2018

- Operations should not be conducted where there is interference with speedmeasuring devices
- Operations at a location should not be continued too long or repeated too often;
 with time, drivers will come to know the locations
- If operations involve two or more officers -- one performing the estimation and speed measurement and other officers conducting the stops -- the site should allow all officers visual contact at the time the speed measurement is taken to ensure proper driver identification

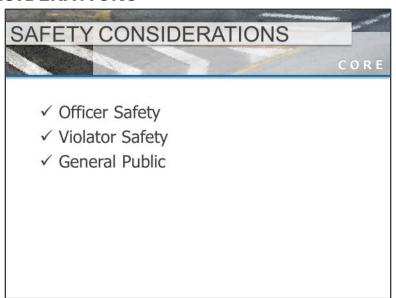
 Visibility of Violator
 Choose a location that allows for proper tracking history

Page 32

CORE

Chapter 4: Site Selection

SAFETY CONSIDERATIONS



Slide 21.



Use dry-erase board or flipchart to solicit student discussion.

At no time, should an operator create a situation that endangers the public or themselves for the sake of issuing a speeding citation.

- Officer safety considerations
 - A stationary enforcement site must provide enough room for the patrol vehicle to park and not impede the normal flow of traffic
 - The site must allow for the operator to visually monitor traffic
 - The site must allow the patrol vehicle operator sufficient visibility and space to safely enter traffic
- Violator Safety Considerations
 - The operator should choose a location to initiate the traffic stop that will allow sufficient space out of the lanes of travel for the driver's vehicle and patrol vehicle
 - The site should provide, as much as possible, a safe situation for the driver and law enforcement officer(s)

Ensure all actions are consistent with your agency policies and procedures.



Estimated time for Chapter 5: 30 Minutes

CORE

Contents

260

>> Objectives

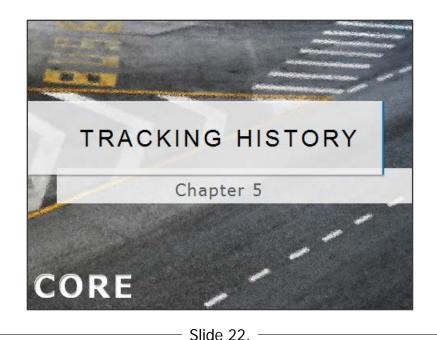
80.

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Tracking History36Visual Observation38Estimation of Speed40Audio Confirmation42Unit Confirmation43

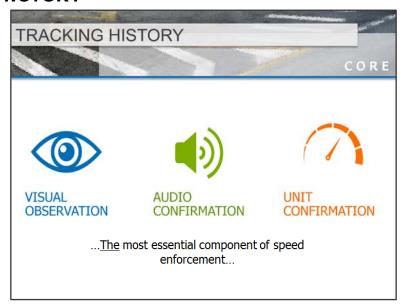
By the end of this chapter, you will be able to:

 Explain the elements of a speed enforcement tracking history



0	140 22.
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TRACKING HISTORY



Slide 23.

Of all the topics contained in this training program, this topic area is the most essential. Regardless of how knowledgeable a student becomes of the applicable statutory and case law or how proficient they become with the operation of various types of speed-measuring devices, the officers who fail to develop the ability to identify violators and estimate the target vehicle's speed often fail to obtain conviction in the court.

The ability to estimate speed is a learned skill. This block of instruction is designed to provide information on the various elements to be considered when making a speed estimation and sufficient time to apply this information through practical application. The ability to estimate speed will continue to improve with time and experience. Experienced officers should possess the ability to estimate the speed of a target vehicle within very close tolerances.

Many drivers use R.A.D.A.R./L.I.D.A.R. detectors to avoid speeding citations. Officers that are proficient in the identification of violators and the estimation of target vehicle speed are not hampered in their enforcement efforts by detectors.

Law enforcement officers on patrol continually divide their attention among many tasks. The primary task of officers assigned to traffic enforcement duties is monitoring traffic. Officers assigned to routine patrol duties are expected to take appropriate traffic enforcement action when warranted. Regardless of an officer's assignment, the ability to quickly and accurately identify speed violators will allow officers to divide their attention among the other necessary tasks.

Many speed-measuring devices are equipped with a feature that will allow the device to remain in a "stand-by" mode until the measure of a specific target vehicle's speed is needed. This method of device operation keeps the transmitter active without broadcasting any signal which would activate the detectors.

A basis is needed for any speed enforcement action. An officer must know, and later articulate, that a specific vehicle and a person operating that vehicle did in fact violate a speed law. This basis supports the proving of elements for any speed law or rule and is known as a Tracking History.

There are various steps which are part of developing a Tracking History. Each step supports another and the number of steps incorporated can vary with the type being used.

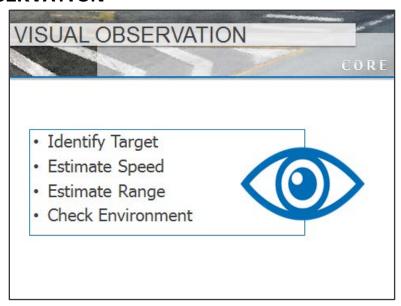
Developing a Tracking History involves three components:

- 1. Visual observation and estimation
- 2. Audio confirmation
- 3. Unit confirmation

Studies have shown that people can learn to estimate the speeds of vehicles accurately based on their visual observation. Law enforcement officers can become very proficient at estimating speeds because observing traffic is a major part of their job. When officers become proficient with this skill, they easily identify violators and estimate the violator vehicle's speed. This learned skill improves the effectiveness of speed enforcement through the proper and efficient use of speed-measuring devices.

The goal of the speed enforcement program is to improve traffic safety. At no time, should an operator create a situation that endangers the public or themselves for the sake of issuing a speeding citation.

VISUAL OBSERVATION



Slide 24.

These categories can be broken down further into various steps.

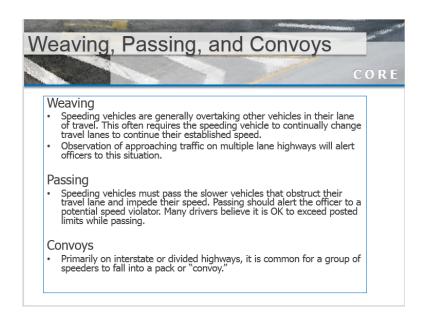
Target Identification

The first step in any speed enforcement action is the identification of the violator. This identification is often done by officers at a subconscious level. It's that energized reaction that most officers receive when they suddenly observe a vehicle traveling at an extremely high speed. Vehicles traveling at speeds much higher than the posted speed limits are easily identified while the vehicles that are speeding just above the posted speed limits are generally harder to identify initially.

Estimation of Target Speed

Once an officer identifies a speeding vehicle, that vehicle then becomes the target vehicle. This simply implies that the officer is now focusing, or targeting, their attention on this specific vehicle. It is during this period of observation that the officer will estimate the target vehicle's speed independent of and prior to the use of any speed-measuring device. With experience, the speed estimation will occur simultaneous with target identification.

Visual observation of the target vehicle is all that is needed to make a speed estimation. There is no time frame that must take place for this to occur. Experienced officers will use as much time as is available and necessary to make the speed estimation.



Slide 25

Weaving

Speeding vehicles are generally overtaking other vehicles in their lane of travel. This often requires the speeding vehicle to continually change travel lanes to continue their established speed.

Observation of approaching traffic on multiple lane highways will alert officers to this situation.

Passing

Speeding vehicles must pass the slower vehicles that obstruct their travel lane and impede their speed. Passing should alert the officer to a potential speed violator. Many drivers believe it is OK to exceed posted limits while passing.

Convoys

Primarily on interstate or divided highways, it is common for a group of speeders to fall into a pack or "convoy."

Estimate Range

Estimation of Target Distance

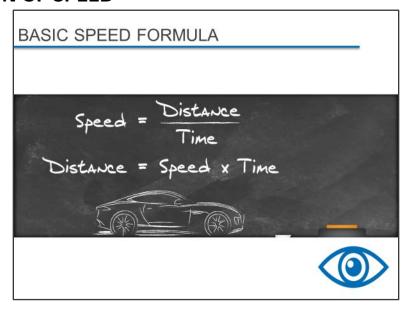
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•	Weather
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- Pedestrian traffic
- Business districts
- School districts
- Urban
- Rural
- Construction areas

Roadway design (hills, curves, etc.)

ESTIMATION OF SPEED



Slide 26

$$speed = \frac{distance}{time}$$

distance = speed * time

SPEED CONVERSION FORMULA

$$1 mph = 1.5 fps$$

$$\frac{Mile}{Hour} = \frac{5,280ft}{60min} = \frac{5,280ft}{3600sec}$$

$$\frac{5,280ft}{3,600sec} = 1.4667 \approx 1.5$$



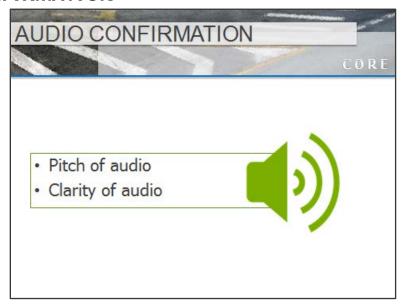
Slide 27 -

Calculate conversion of mph to f/s.

Officers should be able to recognize and translate time and distance proportionality. A vehicle will travel approximately 1.5 feet during each second for each mile per hour of speed. If a vehicle traveled approximately 75 feet during one second of time, the vehicle is traveling approximately 50 miles per hour (75ft/sec = 50mph). This method of estimating speed is reasonably accurate and acceptable for speed estimations.

SUPPLEMENT 4: Speed and Range Estimation Worksheet (10 Minutes

AUDIO CONFIRMATION



Slide 28

Audio Confirmation is an important element of tracking history. It is going to be different for R.A.D.A.R. and L.I.D.A.R.

UNIT CONFIRMATION



Slide 29

The final step in developing a Tracking History is the confirmation of the two previous steps with speed-measuring device readout.

A steady read-out with the speed-measuring device is preferred. The operator must be able to articulate that the speed reading came from the target vehicle.

Once the read-out is obtained, it must corroborate the operator's visual estimation of the target vehicle's speed.

The process of developing a Tracking History may appear to be complicated. It takes only a few seconds and becomes automatic. A Tracking History is necessary for ALL speed enforcement actions.

If ANY doubt ever exists while developing a Tracking History, no enforcement action should be taken.

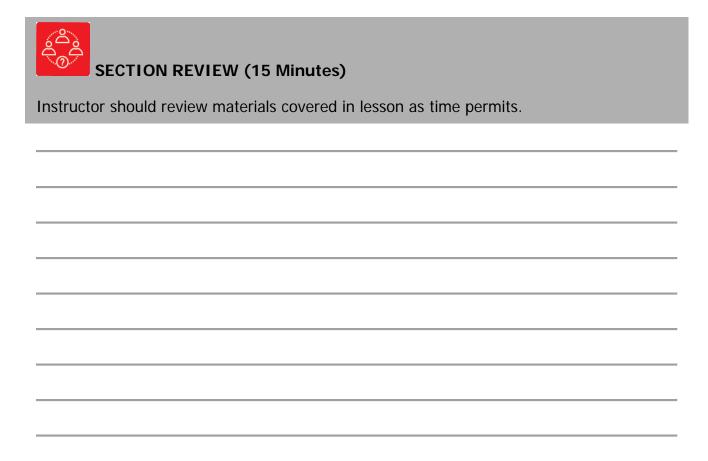


SUPPLEMENT 5: Tracking History Worksheet (10 Minutes)

SUMMARY AND SECTION REVIEW



Slide 30





STOPPING DISTANCE WORKSHEET

Stopping Distance			S = Speed DF = Drag Factor		
30	$\frac{S^2}{30 \text{ X DF}}$ = Distance to Stop Once Brakes are Applied				
1.4		1.47 = C	peed converts mph - feet per second verage perception/reaction		
	S X 1.47 X 1.5 = Distance Cove	ered During I	Perception/Reaction Time		
Vio	lator's Speed	Vio	lator's Speed		
1.	Reaction Distance	1.	Reaction Distance		
2.	Stopping Distance	2.	Stopping Distance		
3.	Total Stopping Distance	_ 3.	Total Stopping Distance		
Vio	lator's Speed	Vio	lator's Speed		
1.	Reaction Distance	1.	Reaction Distance		
2.	Stopping Distance	2.	Stopping Distance		
3.	Total Stopping Distance	_ 3.	Total Stopping Distance		
Vio	lator's Speed	Vio	lator's Speed		
1.	Reaction Distance	1.	Reaction Distance		
2.	Stopping Distance	2.	Stopping Distance		
3.	Total Stopping Distance	3.	Total Stopping Distance		

SPEED LIMIT WORKSHEET

Speed Limit		Speed Limit		
Violator's Speed		Violator's Speed		
1.	Reaction Distance/	1.	Reaction Distance/	
2.	Stopping Distance/	2.	Stopping Distance/	
3.	Total Stopping Distance/	3.	Total Stopping Distance/	
4.	% Over Speed Limit	4.	% Over Speed Limit	
5.	% Farther to Stop	5.	% Farther to Stop	
Spe	eed Limit	Spe	eed Limit	
Vio	lator's Speed	Vio	lator's Speed	
1.	Reaction Distance/	1.	Reaction Distance/	
2.	Stopping Distance/	2.	Stopping Distance/	
3.	Total Stopping Distance/	3.	Total Stopping Distance/	
4.	% Over Speed Limit	4.	% Over Speed Limit	
5.	% Farther to Stop	5.	% Farther to Stop	
Spe	eed Limit	Spe	eed Limit	
Vio	lator's Speed	Vio	lator's Speed	
1.	Reaction Distance/	1.	Reaction Distance/	
2.	Stopping Distance/	2.	Stopping Distance/	
3.	Total Stopping Distance/	3.	Total Stopping Distance/	
4.	% Over Speed Limit	4.	% Over Speed Limit	
5.	% Farther to Stop	5.	% Farther to Stop	

CORE: Supplement #2

SPEED LAWS

ELEMENTS	BASIC SPEED LAW	ABSOLUTE SPEED LAW	PRIMA FACIE SPEED LAW
Driver	Accused must be shown to have been the driver at the time of the infraction.	(Same)	(Same)
Location	Any place to which the public has right of access for vehicle use.	(Same)	(Same)
Speed	Unreasonable or imprudent	In excess of specified limit and thus are in violation of the law.	In excess of specified limit and thus presumed to be driving unlawfully.
Conditions	Having regard to actual and potential hazards.	Not applicable	Having regard to actual and potential hazards.

SPEED AND RANGE ESTIMATION WORKSHEET

Name	Location
Date	Time

Speed Est.	Range Est.	Speed Est.	Speed Actual	Range Actual	Difference Speed	Difference Range
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total	Total	Total	Total	Total	Total	Total

Total of All Speed ÷ 10 = Range of Speed Estimates	
"My ability to estimate speeds averaged within	mph in a structured test."
Total of All Ranges ÷ 10 = Range of Distance Estimates	
"My ability to estimate range averaged within	feet in a structured test."

TRACKING HISTORY

Visual			
1			
2			
3			
4			
Audio			
1			
2			
Unit Confirmation			
1			
2			



Core Module Test

Speed Measuring Device Operator Training

Na	ame	Date				
Αg	Agency					
1.		ger percentage of reported traffic fatalities occur on local roads than on the way system.				
	Α.	True				
	В.	False				
2.		How many times more likely will a collision result in a fatality at 70 mph versus 45 mph?				
	Α.	2				
	В.	4				
	C.	3				
	D.	5				
3.	A vehicle traveling at 50 mph will travel approximately how many feet during a 1.5 second reaction time?					
	Α.	307 feet				
	В.	94 feet				
	C.	110 feet				
	D.	132 feet				
4.	The t	The two types of speed laws are and				
	Α.	Common, Constitutional				
	В.	Criminal, Punitive				
	C.	Statutory, Civil				
	D.	Basic. Statutory				

Core Module Test

Speed Measuring Device Operator Training

5.	A "60	MPH" sign is an example of a speed law.	
	Α.	Criminal	
	В.	Basic	
	C.	Statutory	
	D.	Punitive	
6.	Which of the locations below would be a valid site for speed enforcement operations?		
	Α.	Locations where speed has been a factor in accidents	
	B.	Locations where general speed violations frequently occur	
	C.	Locations having special need or specifically focused speed regulations	
	D.	All of the above	
7.		selecting a site to conduct speed enforcement operations, consideration d be given to:	
	Α.	Visibility of the violator	
	В.	Officer Safety	
	C.	Violator Safety	
	D.	All of the above	
8.	Which of the following is a step in Tracking History?		
	Α.	Survey of the area.	
	В.	Audio confirmation	
	C.	Corroboration by an independent witness.	
	D.	Speeding above the limit set by ordinance.	
9.	The Visual Observation sub-step elements of Tracking History are: (1) identify the target; (2) estimate the vehicle speed; (3) estimate the distance and (4)		
	Α.	check vehicle direction	
	B.	note color of the vehicle	
	C.	check the environment	
	D.	align radar antenna	

Core Module Test (Answer Sheet) Speed Measuring Device Operator Training

1.	A larger percentage of reported traffic fatalities occur on local roads than on the highway system. (Ch. 2, Pg. 21)		
	A.	<u>True</u>	
	В.	False	
2.		many times more likely will a collision result in a fatality at 70 mph versus 45 (Ch. 2, Pg. 20)	
	A.	2	
	В.	<u>4</u>	
	C.	3	
	D.	5	
3.		nicle traveling at 50 mph will travel approximately how many feet during a 1.5 and reaction time? (Ch. 2, Pp. 19-20)	
	Α.	307 feet	
	В.	94 feet	
	C.	<u>110 feet</u>	
	D.	132 feet	
4.	The t	wo types of speed laws are and (Ch. 3, Pg. 23)	
	Α.	Common, Constitutional	
	В.	Criminal, Punitive	
	C.	Statutory, Civil	
	D.	Basic, Statutory	

Core Module Test (Answer Sheet) Speed Measuring Device Operator Training

5.	A "60	MPH" sign is an example of a speed law. (Ch. 3, Pg. 24)	
	A.	Criminal	
	В.	Basic	
	C.	Statutory	
	D.	Punitive	
6.	Which of the locations below would be a valid site for speed enforcement operations? (Ch. 4, Pg. 29)		
	A.	Locations where speed has been a factor in accidents	
	В.	Locations where general speed violations frequently occur	
	C.	Locations having special need or specifically focused speed regulations	
	D.	All of the above	
7.	When selecting a site to conduct speed enforcement operations, consideration should be given to: (Ch. 4, Pg. 29)		
	A.	Visibility of the violator	
	В.	Officer Safety	
	C.	Violator Safety	
	D.	All of the above	
8.	Which of the following is a step in Tracking History? (Ch. 5, Pp. 35-37)		
	A.	Survey of the area.	
	В.	<u>Audio confirmation</u>	
	C.	Corroboration by an independent witness.	
	D.	Speeding above the limit set by ordinance.	
9.	targe	/isual Observation sub-step elements of Tracking History are: (1) identify the t; (2) estimate the vehicle speed; (3) estimate the distance and (Ch. 5, Pp. 36-37)	
	A.	check vehicle direction	
	В.	note color of the vehicle	
	C.	check the environment	
	D.	align radar antenna	