South Carolina
Criminal Justice Academy
Traffic safety unit

Speed Measuring Device

Road Proficiency

Field Testing Forms

Revised 06/2019

Student's Name:_____

Student's Academy ID:_____

Student's Department:_____

Student's Email:_____

Student's Phone Number:_____

Course Title:_____

Classroom Location:_____

Course Dates:_____

Road Proficiency Date:_____

SC Criminal Justice Academy
Traffic Safety Unit

Police Traffic Speed-Measuring Device Operator Road Proficiency Testing Booklet

Instructions:

The Speed-Measuring Device Instructor should administer the road proficiency portion of the Basic Police Traffic Speed-Measurement Operator course to the Speed-Measurement operator trainee/student within the prescribed four (4) weeks from the conclusion date of the classroom portion of the course as set forth in the CJA Policy and Procedures (General Training Requirements). The instructor should evaluate the Speed Measuring Device being used for operational condition. In the event the instrument fails either internal or external tests or has missing parts, the condition should be noted and no road test performed with that instrument.

There is a demonstrated process for calculating the average error rating for the student's visual speed estimates on the page prior to the Radar evaluation. **At a minimum, the student must show proficiency with one form of speed measuring device (Radar/Lidar/Average Speed Computation). If that device is a radar unit, forward stationary and moving mode must as a minimum be completed.** For the RADAR instruments designed with Rear Antenna stationary/moving, Same/Opposite Direction, Digital Signal Processing, Time/Distance, or Dual Antenna capabilities, the instructor should complete the appropriate sections. In the event the student advises the instructor that these available functions will not be applied for enforcement purposes, the instructor can omit those applications, but must note clearly in the instructor comments area this fact. Stopwatch/Average Speed Computation is provided near the end of this packet, and Lidar proficiency testing is included at the end. **THE STUDENT MUST COMPLETE PROFICIENCY FOR ANY MODE OF SPEED MEASUREMENT TO BE USED IN SPEED ENFORCEMENT DURING THEIR CERTIFICATION PERIOD.**

If the student fails to demonstrate Acceptable levels of performance with the visual speed estimates, the instructor should document the deficiencies in the comments section and reschedule the student for further practice and testing (original certifications only). Upon completion of the road proficiency testing, the data from this form should be submitted to the SC Criminal Justice Academy Traffic Safety Unit via the SCCJA website through the submittal option under forms. This must occur by the conclusion of the fourth week of the course. Any proficiency forms received after the fourth week will be considered failures. Make sure the course type/location and dates are clearly written on the cover sheet. **SMD RECERTIFICATION PROFICIENCIES ARE DUE WITHIN TWO WEEKS OF THE COURSE TEST DATE, AND THERE ARE NO RETESTS FOR RECERTIFICATION FAILURES.**

Note: Student(s) failing to meet field proficiency testing standards (ORIGINAL CERTIFICATIONS ONLY) should be rescheduled for further practice sessions. If, after a third failed attempt at meeting standard, the student should be recycled through the classroom portion of the Speed-Measuring Device Operator Training course. The Academy Program Director should be notified of student recycles. SMD RECERTIFICATIONS ARE GIVEN ONLY ONE ATTEMPT AT PASSING THE PROFICIENCY WITH NO RETESTS.

Radar Functionality

(*Required for Radar Proficiency*)

PROPER RADAR SET-UP: ABC'S (CHECK ONE):

	Acceptable	Unacceptable
Antenna(s):		
Box:		
Current:		

PROPER RADAR TESTING PROCEDURE (CHECK ONE):

	Acceptable	Unacceptable
Internal/Light Segment Tests:		
Tuning Forks Test (Stationary):		
Tuning Forks Test (Moving):		
Explain Tracking History (for all modes of expected operation):		

REMOTE CONTROL FUNCTIONS:

	Acceptable	Unacceptable
Front/Rear Antenna Switching (Explain and demonstrate the use of the remote buttons if applicable):		
Faster/Slower Button (Explain the use of the button in conjunction with same direction mode if applicable):		
Target Verification Window (Explain the target verification speeding up and/or slowing down):		
Lock-Release (Explain function)		

RADAR INSTRUMENT INDICATORS

	Acceptable	Unacceptable
Antenna Direction Indicators (Explain function if applicable):		

Road Proficiency Visual Estimate Test Scoring Example:

Stationary				Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**	**Target Vehicle**	**Estimate**	**Actual**	**Error MPH**
1	40	45	5	*1*	45	45	-
2	45	45	-	*2*	42	45	3
3	43	45	2	*3*	50	45	5
4	42	45	3	*4*	46	45	1
5	45	45	-	*5*	47	45	2
6	42	45	3	*6*	45	45	-
7	44	45	1	*7*	45	45	-
8	45	45	-	*8*	41	45	4
9	40	45	5	*9*	45	45	-
10	45	45	-	*10*	45	45	-

Average Error MPH Stationary: 1.9
Average Error MPH Moving: 1.5
Average Error MPH Overall (add above two lines together and divide by 2): 1.7

***Simply add the error totals for each side then divide by ten. This is done for each mode separately. Then add both stationary and moving error totals and divide by 2. The student must not exceed +/- 3.0 MPH average in EACH TESTED MODE (e.g. stationary-front, moving-front, moving-front-fastest, etc.) or it is considered unsatisfactory**

Radar Unit Identification

Make:	
Model:	
Serial Number:	
Condition:	

Visual Estimate Tests Front Antenna

FRONT ANTENNA ONLY: Minimum Required For Radar

Stationary				**Moving**			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**	**Target Vehicle**	**Estimate**	**Actual**	**Error MPH**
1				*1*			
2				*2*			
3				*3*			
4				*4*			
5				*5*			
6				*6*			
7				*7*			
8				*8*			
9				*9*			
10				*10*			

Average Error MPH Stationary:_____
Average Error MPH Moving:_____
Average Error MPH Overall (add above two lines together and divide by 2) :_____

Instructor Comments:

_____

_____

Instructor Signature:_____ Date:_____
Student Signature:_____ Date:_____

Visual Estimate Tests Rear Antenna

REAR ANTENNA ONLY: If Utilized

Stationary				Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**	**Target Vehicle**	**Estimate**	**Actual**	**Error MPH**
1				*1*			
2				*2*			
3				*3*			
4				*4*			
5				*5*			
6				*6*			
7				*7*			
8				*8*			
9				*9*			
10				*10*			

Average Error MPH Stationary:_____
Average Error MPH Moving:_____
Average Error MPH Overall (add above two lines together and divide by 2):_____

Instructor Comments:

_____

_____

_____

Instructor Signature:_____Date:_____
Student Signature:_____Date:_____

Visual Estimate Tests Same Direction

FRONT ANTENNA SAME DIRECTION: If Utilized

Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**
1			
2			
3			
4			
5			

Add these together and divide by 5.

REAR ANTENNA SAME DIRECTION: If Utilized

Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**
1			
2			
3			
4			
5			

Add these together and divide by 5.

Average Error MPH Front Antenna:_____
Average Error MPH Rear Antenna:_____
Average Error MPH Overall (add above two lines and divide by 2):_____

Instructor Comments:

_____

_____

_____

Instructor Signature:_____Date:_____
Student Signature:_____Date:_____

Visual Estimate Tests Fastest Mode

DSP- Fastest Mode Front Antenna: If Utilized

Stationary				Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**	**Target Vehicle**	**Estimate**	**Actual**	**Error MPH**
1				*1*			
2				*2*			
3				*3*			
4				*4*			
5				*5*			

DSP- Fastest Mode Rear Antenna: If Utilized

Stationary				Moving			
Target Vehicle	**Estimate**	**Actual**	**Error MPH**	**Target Vehicle**	**Estimate**	**Actual**	**Error MPH**
1				*1*			
2				*2*			
3				*3*			
4				*4*			
5				*5*			

Average Error MPH Front Antenna:_____
Average Error MPH Rear Antenna:_____
Average Error MPH Overall (add above two lines and divide by 2):_____

Instructor Comments:

_____

_____

Instructor Signature:_____ Date:_____
Student Signature:_____ Date:_____

Average Speed Calculations for the Stopwatch Function (REQUIRED FOR TIME DISTANCE):

Stopwatch Set-up (check one): If Utilized

	Acceptable	Unacceptable
Stopwatch Test		
Enter proper distance		
Familiarity with Time/Distance Principles:		

Box (Counter) Functions: If Utilized

	Acceptable	Unacceptable
Stopwatch/Range Selection (Explain proper use of the stopwatch):		
Distance Switch (Explains how to enter distance and converting yards to feet, etc.):		
Display Target Speed (Explain D.T.S. only/display time in seconds):		

Calculations: If Utilized

Target Vehicle	Distance	Time	Estimate	Actual Speed	Error MPH
1					
2					
3					
4					
5					

Add these together and divide by 5.

Average Error:_____

Instructor Comments:

_____

_____

Instructor Signature:_____**Date:**_____

Student Signature:_____**Date:**_____

Lidar Field Proficiency Testing (REQUIRED FOR LIDAR)

	Acceptable	Unacceptable
Site Selection:		
Officer Safety:		
Operation Safety:		
Conducts Internal Accuracy checks:		
Demonstrates Proper Sight Alignment:		
Demonstrates Valid Range Accuracy:		
Articulates Tracking History of Target Vehicle:		

Lidar Unit Identification

Make:	
Model:	
Serial Number:	
Condition:	

Lidar Visual Estimates

Target	Visual Estimate	Actual Speed	Error +/-
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Average Error:_____

Instructor Comments:

_____

_____

_____

Instructor Signature:_____**Date:**_____

Student Signature:_____**Date:**_____