



South Carolina Criminal Justice Academy

Traffic Safety Unit

Speed Measuring Device Road Proficiency Field Testing Forms Revised 11/2013

Course Type/Location: _____

Course Date(s): _____

Student Name/Department: _____





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 two (2) to six (6) 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.

On page two (2) there is a demonstrated process for calculating the average error rating for the student's visual speed estimates. On page three (3) there is an evaluation section for the standard front antenna RADAR devices. If this is the case, the instructor will only need to complete this section. For the RADAR instruments designed with 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. **At a minimum, the student must show proficiency on a front antenna Radar in both stationary and moving modes to be considered satisfactorily proficient in Radar Operation.** Lidar proficiency testing is included on page 10 of this form, and must be completed for any Lidar Operator/Recertification or any SMD Operator course.

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 Chris Kendall at the SC Criminal Justice Academy Traffic Safety Unit. This must occur by the conclusion of the sixth week of the course. Any proficiency forms received after the sixth 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.**



SCCJA Speed-Measuring Device Road Proficiency Test Form

Course type/location: _____ Course Dates: _____
Student Name: _____ ACADIS#/Academy ID#: _____
Student Agency: _____ County: _____
Test Date: _____ Test Location: _____
Traffic Volume: _____ Years of Radar/Lidar Experience: _____

Radar/Lidar Type (Circle One or more):

Applied Concepts, Inc.

Stalker (Sta. Ka)
Stalker (Mov Ka)
Stalker (Dual Ka)
Stalker (Dual SL)
Stalker (DSR)
Stalker (ATR)
Stalker (Basic)
Stalker XLR (Lidar)

Decatur Electronics

Genesis I (X)
Genesis I (K)
Genesis GHD (K)
Genesis II (Ka)
Genesis – VP/Directional
Scout

Kustom Signals, Inc.

Eagle I/II (K)
Eagle I/II (Ka)
Golden Eagle (K)
Golden Eagle II (Ka/K)
Falcon (K)
Raptor RP-1 (Ka)
Talon II (Ka)
HR-12 (K)
Pro-1000DS (K)
ProLaser III (Lidar)
ProLaser 4 (Lidar)
Pro-Lite + (Lidar)

MPH Industries

BEE III (K/Ka)
Bee 36A (X, K, Ka)
Bee-36 (Ka)
K-55 (X, K)
K-55 (X)
Python I (X, K, Ka)
Python II (X, K, Ka)
Ranger EZ³ (K)
Speedgun (K)
Enforcer (Ka)
Z-25, Z-35 (K)
Python Series II (X, K, Ka)
Python Series III (X,K,Ka)

Laser Technologies, inc

LTI 20/20 TruCAM (Lidar)
TruSpeed LR (Lidar)
Ultralyte 100/200 (Lidar)
Ultralyte LR B (Lidar)

Laser Atlanta, LLC

SpeedLaser (B/R/S/T)

Other RADAR Type: _____

RADAR Model Serial Number: _____

RADAR Condition: _____



SCCJA Speed-Measuring Device Road Proficiency Test Form

Proper RADAR Set-Up; ABC's (Check One):

	<u>Acceptable</u>	<u>Unacceptable</u>
Antenna(s):		
Box:		
Current:		

Proper RADAR Testing Procedure (Check One):

	<u>Acceptable</u>	<u>Unacceptable</u>
Internal test:		
Tuning Fork(s):		
Moving:		
Stationary:		

Road Proficiency Visual Estimate Test Scoring:

<u>Stationary</u>				<u>Moving</u>			
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: _____ 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.



SCCJA Speed-Measuring Device Road Proficiency Test Form

Visual Estimate Tests

Front Antenna Only:

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:** _____



SCCJA Speed-Measuring Device Road Proficiency Test Form

Visual Estimate Tests

Rear Antenna Only:

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: _____



SCCJA Speed-Measuring Device Road Proficiency Test Form

**Dual Antenna/Same Direction/Digital Signal/Time-Distance
RADAR Instrument Familiarity**

This section is provided for the purpose of testing the student who proposes to operate a RADAR instrument that has one or more of the above listed functions:

Box (Counter) Functions:

Acceptable

Unacceptable

Stopwatch/Range Select Switch (Explain proper use of the stopwatch):		
Distance Switch (Explain use of the thumb wheels in the stop watch mode):		
Slower Indicator (Explain when to utilize "slower mode"):		
Antenna Direction Indicators (Explain Function)		
Display Target Speed (Explain D.T.S. only/display time in seconds):		

Remote Control Functions:

Front/Rear Switch (Explain the use of the rocker switch):		
Faster/Slower Button (Explain the use of the button):		
Target Verification Window (Explain the target verification speeding up and/or slowing down):		
Lock-Release / Start-Stop (Explain function):		

Instructor Comments:



SCCJA Speed-Measuring Device Road Proficiency Test Form

Rear Antenna (Same Direction)

Moving

Target Vehicle	Estimate	Actual	Error MPH
1			
2			
3			
4			
5			

Add these together and divide by 5.

Front Antenna (Same Direction)

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:



SCCJA Speed-Measuring Device Road Proficiency Test Form

Average Speed Calculations for the Stopwatch Function:

Stopwatch Set-up (check one)

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

Calculations:

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:** _____



SCCJA Speed-Measuring Device Road Proficiency Test Form

DSP – Fastest Mode Front Antenna

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

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 Stationary (F&R, divide by 10): _____

Average Error MPH Moving (F&R divide by 10): _____

Average Error MPH Overall (Add the above two lines, divide by 2): _____

(Note: If only using front antenna, divide stationary by 5 and moving by 5)

Instructor Comments:

Instructor Signature: _____ **Date:** _____

Student Signature: _____ **Date:** _____



SCCJA Speed-Measuring Device Road Proficiency Test Form

Lidar Field Proficiency Testing

	<u>Pass</u>	<u>Fail</u>	<u>Re-test</u>
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 Visual Estimates

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

Instructor Comments: _____ **Average Error:** _____

Instructor Signature: _____ **Date:** _____

Student Signature: _____ **Date:** _____

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.