

Time-Distance Operator Training

TDI-B06.01

Course Title: TIME-DISTANCE OPERATOR TRAINING

Lesson Title: Familiarization & Operation of Specific Time-Distance Instruments
[Supervised Operation of Instrument(s) - Field Practice]

Lesson Purpose: This block of instruction is designed to provide the trainee with familiarity of the functions and operating procedures as they pertain to the Time-Distance instrument(s) in which the trainee seeks certification, as well as providing time for the trainee to practice proper operation of these instruments while being supervised by a Time-Distance Instructor.

Performance Objectives: At the end of this block of instruction, the trainee will be able to achieve the following objectives in accordance with the information received during the instructional period:

1. Demonstrate familiarity with the functions and operating procedures of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.
2. Describe the functional components of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.
3. Describe the setup, calibration, test for accuracy and operational procedures of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.

Hours: Twelve (12) hours

Instructional Method: Lecture/Demonstration

Materials Required: Time-Distance Operator Training Course Manual
Supplement for Speed Measuring Instrument Courses

Time-Distance Operator Training

Pen/Pencil
Legal Pad

Training Aids: Time-Distance Instrument(s)
Time-Distance Equipped Vehicle(s)
AC/DC Power Supplies

References: See Bibliography

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Time-Distance Operator Training

TDI-B06.03

Course Title: TIME-DISTANCE OPERATOR TRAINING

Lesson Title: Familiarization & Operation of Specific Time-Distance
Instruments
[Supervised Operation of Instrument(s) - Field Practice]

I. Introduction

A. Opening Statement

Instrument calibration and testing for accuracy procedures as well as the operating procedures for speed measuring instruments are established by the North Carolina Criminal Justice Education and Training Standards Commission. These procedures must be followed by the Speed Measurement Instrument Operator.

Note: Show Slide, “Performance Objectives”

B. Performance Objectives

At the end of this block of instruction, the trainee will be able to achieve the following objectives in accordance with the information provided during the instructional period:

1. Demonstrate familiarity with the functions and operating procedures of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.
2. Describe the functional components of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.
3. Describe the setup, calibration, test for accuracy and operational procedures of the Time-Distance instrument(s) for which the trainee seeks certification in accordance with criteria specified on a standardized performance evaluation form.

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C. Reason

It is necessary to understand the instrument calibration and testing for accuracy procedures as well as the operating procedures for speed measuring instruments approved for Time-Distance use in North Carolina.

II. Body

A. Definitions

Note: Show Slide, “Definitions” and cover manual.

An explanation or definition of each switch, dial, control and or indicators that may be found on your approved Time-Distance instrument is explained below. You should become very familiar with each function of the Time-Distance instrument(s) you are to be certified to operate.

1. On/Off turns power on and off.
2. Display readout gives speed of target vehicle in miles per hour.
3. Distance switch is used to turn the “distance input” into the computer on and off.
4. Time switch is used to turn the “time input” into the computer on and off.
5. An Odometer / Distance Data Module simply translates and sends distance information to the computer. Depending upon the particular patrol vehicle manufacturer or model year, the module may be either an “odometer module” or what is referred to as a “distance data module.” The odometer module is mechanical and is commonly attached directly to the patrol vehicle’s transmission or odometer cable. The “distance data module” may be mechanically attached to the drive shaft of the patrol car which utilizes magnets and a receiver, or it may electronically interfaced with the vehicle’s onboard diagnostics (OBD-2) port, or may be electronically interfaced with the vehicle speed sensor data line from the patrol vehicle’s onboard computer system. Regardless as to which module is used, its purpose is to simply translate the distance traveled by the patrol vehicle which is used as part of the distance-over-time computation.

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6. Computer module consists of electronic circuitry that accepts time and distance information and automatically calculates average speed.

B. Statutory Authority

Note: Show Slide, “Instrument Calibration, Testing for Accuracy Procedures and Operating Procedures”

1. Instrument calibration and testing for accuracy procedures [Statutory Authority G.S. 8-50.2(b)(4)] established by the North Carolina Criminal Justice Education and Training Standards Commission for each approved speed measuring instrument must be followed by the speed measurement instrument operator daily prior to use. Some of the testing procedures must also be conducted at the end of the operator’s daily tour of duty.
2. Operating procedures [Statutory Authority G.S. 8-50.2(b)(2)] established by the North Carolina Criminal Justice Education and Training Standards Commission for the operation of each approved speed measuring instrument must be followed by the speed measurement instrument operator.

C. Appendix C, located in the Supplement for Speed Measuring Instrument Training Courses, contains the instrument calibration and testing for accuracy procedures as well as the operating procedures for speed measuring instruments approved for time-distance use in North Carolina. These procedures must be followed as you familiarize yourself with the instruments in which you seek certification. As you practice the use of time-distance instruments during this block of instruction, follow proper procedures so you will be prepared when it is time to be tested.

D. Appendix B, located in the Supplement for Speed Measuring Instrument Training Courses, contains the annual test for accuracy requirements. Each time-distance instrument must meet the requirements as listed on form SMI 11.

E. Trainee shall be allowed time to practice proper operation of instrument(s) while being supervised by a Time-Distance Instructor.

III. Conclusion

A. Summary

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The operator calibration, testing for accuracy, and operating procedures outlined in this manual are to ensure that the trainee has been familiarized with the procedures that are required to be followed by the Time-Distance Operator.

B. Questions

Note: Show Slide, “Questions”

C. Closing Statement

Remember that you are responsible for the operation of your particular Time-Distance instrument(s). Following the procedures outlined in this manual will ensure that reliable, credible and accurate enforcement action is taken by you, the Time-Distance Operator.