

**LOS ANGELES POLICE DEPARTMENT  
LASER-LASER OPERATOR (LIDAR) SCHOOL  
Expanded Course Outline**

**Instructional Goal:** To provide students with a basic understanding of Laser theory and operations. The students will be able to effectively use Laser to enforce speed laws and present a compelling case in court to secure a conviction.

**Performance Objectives:** Using group discussions, learning activities and practical application exercises, students will:

- Articulate why speed enforcement is needed to reduce the number of fatal and serious injury traffic crashes
- Explain how Laser devices operate
- Compute equations that will be used to effectively use Laser
- Demonstrate how to set-up and test a Laser device
- Explain how to avoid effects that could result in erroneous readings
- Understand the different statutes in the California Vehicle Code (CVC) that are related to speed enforcement.
- Understand case law that pertain to Laser speed enforcement
- Avoid conducting a speed trap by following statues in the CVC

**DAY 1**

**I. INTRODUCTION AND ORIENTATION** 0.5 hour

- A. Instructor/Cadre Introductions
- B. Administrative
- C. Grading
- D. Course Schedule
- E. Course Goals
- F. Introduction to Laser

**II. PRINCIPLES OF LASER** 1.5 hours

- A. Definition of Laser and Lidar
- B. Comparison to Radar
- C. Types of Lasers
- D. Beam Width
- E. Operating Principle of Laser
- F. Laser Effects
- G. Tracking History
- H. Angular/Cosine Effect

**LOS ANGELES POLICE DEPARTMENT  
LASER-LASER OPERATOR (LIDAR) SCHOOL  
Expanded Course Outline**

- III. VEHICLE CODE** 1 hour
  - A. Five Es of Traffic Safety
  - B. Basic Speed Law
  - C. Prima Facie Speed Limits
  - D. Maximum Speed Law
  - E. Other Speed Limits
  - F. Critical Speed
  - G. Vehicle and Uniform
  - H. Speed Trap Prohibition
  - I. Speed Trap Definition
  - J. Evidence Obtained from Speed Trap
  - K. Testimony Related to a Speed Trap
  - L. Speed Trap Admission
  
- IV. ENGINEERING AND TRAFFIC SURVEYS** 1 hour
  - A. Purpose of Engineering and Traffic Survey (ETS)
  - B. Requirements of an ETS
  - C. Explanation of the ETS
  
- V. SPEED ENFORCEMENT** 1 hour
  - A. Review ETS
  - B. Inspect the Roadway
  - C. Officer Safety Concerns
  - D. Traffic Stop
  - E. Radar Citation
  
- VI. CASE LAW** 0.5 hour
  
- VII. COURT PREPERATION** 0.5 hour
  - A. Copy of the Citation
  - B. Review Body Worn Video
  - C. Prepare Speaking Points
  - D. Court Packet

**LOS ANGELES POLICE DEPARTMENT  
LASER-LASER OPERATOR (LIDAR) SCHOOL  
Expanded Course Outline**

- |                                      |          |
|--------------------------------------|----------|
| <b>VIII. COURTROOM TESTIMONY</b>     | 0.5 hour |
| A. Dress Attire                      |          |
| B. Demeanor                          |          |
| C. Contact with Violator or Attorney |          |
| D. Trial                             |          |
| E. Submit ETS as Evidence            |          |
| <b>IX. INDIVIDUAL STUDY TIME</b>     | 0.5 hour |
| <b>X. FINAL EXAMINATION</b>          | 1 hour   |