

**Suggested Reference Materials:**

Law Enforcement Preparation Guide may be downloaded from the EVT web site at [www.evtcc.org](http://www.evtcc.org) , Exams and Preparation, or go directly to page by typing in:

[http://www.evtcc.org/pdf\\_files/law%20enforcement%20vehicle%20technician%20prep%20guide.pdf](http://www.evtcc.org/pdf_files/law%20enforcement%20vehicle%20technician%20prep%20guide.pdf)

**Auto Electricity & Electronic Technology**, by James Duffy. Goodheart-Wilcox 1-708-687-5000 or the book can be ordered from [www.Amazon.com](http://www.Amazon.com) for \$52

**OR**

**Heavy Duty ProClinic Manual** by Interstate Battery call Mark Estridge at 972-715-6643 for your local interstate dealer ordering information

## Internet Resources:

<https://www.fleet.ford.com/downloads/specvehpolice/2008mguide.pdf>

[www.whelen.com](http://www.whelen.com)

[www.3m.com](http://www.3m.com)

[www.policetechnologies.com](http://www.policetechnologies.com)

[www.pro-gard.com](http://www.pro-gard.com)

[www.fedsig.com/service](http://www.fedsig.com/service)

[www.powersource.net](http://www.powersource.net)

[www.wattco.net](http://www.wattco.net)

[www.pfmag.com](http://www.pfmag.com)

[www.setina.com](http://www.setina.com)

[www.autoshop101.com](http://www.autoshop101.com)

**LEARNING OBJECTIVES FOR THE L-1 EXAM**

1. Definition and Terms
  - a. LED
  - b. GPS
  - c. SIR/SRS systems
  - d. Wig-wags
  - e. R.F. Interference
  - f. Traffic Pre-emptive systems
  - g. Ohms Law
  - h. Lo-Jack Tracking System
  - i. Strobes
  - j. Anti-lock Brake System (ABS)
  - k. Voltage drop
  - l. LCD
  - m. Wire Gauge
  - n. Impedance
  - o. DMM-Digital Multi-meter
  - p. CVPI
  - q. Memory saver device
  - r. Electrical terminology
2. Installation
  - a. Trunk
  - b. Partition/Prisoner Compartment
  - c. Push bumper
  - d. Plastic seat/floor liner
  - e. Fire extinguisher
  - f. Gun cases
  - g. Light bar
  - h. Wig-wag headlights
  - i. Strobes
  - j. Traffic pre-emption systems
  - k. Radio
  - l. Computer
  - m. Weapons release
  - n. Video camera and recorder
  - o. Chargers (flash light, radio)
  - p. Battery timer
  - q. Alarm systems
  - r. Radar
  - s. GPS.
  - t. LED
  - u. Siren & Speakers
  - v. Control module/switch
  - w. Load management
  - x. Antennas
  - y. Fire suppression systems
  - z. Power inverter
  - aa. Dash lights
  - bb. Slide out tray
3. Basic Electrical
  - a. Parallel and series circuits
  - b. Wiring
  - c. Relays
  - d. Switches
  - e. Diagnostic equipment/tools and procedures
  - f. Circuit protector
  - g. Battery and charging systems
  - h. A/C power inverter
  - i. Diodes
4. Troubleshooting and Repair of Auxiliary Equipment
  - a. Light bar
  - b. Wig-wags
  - c. LED.
  - d. Pre-emptive systems
  - e. Strobes
  - f. Radio
  - g. Computer
  - h. Weapons release
  - i. Video camera and recorder
  - j. Chargers (flashlight, radio)
  - k. Load Management
  - l. Sirens and speakers
  - m. Programming
  - n. R.F. Interference
  - o. Battery timer