

March 2020 Professional Installer Training



INJ-102 AUTOMOTIVE ELECTRONIC DIAGNOSTICS

The Principles of electronics is the foundation to correctly diagnosing and repairing today's high tech vehicles. With all manufactures going to Body Computer Systems to Control all Electrical functions on vehicles along with sharing of sensor data. With complicated network systems between the vehicle computers, the principles of electronics are now even more important. Most vehicle electrical repair is pinpointed by the use of a DVOM or Labscope and interpreting schematics.

Course Outline

1. Introduction
2. Fundamentals of Electricity
 - Electron Theory
 - Voltage, Resistance, Amperage, Wattage
 - Ohms Law
3. Multi Meters
 - How to use high Impedance Meters
 - How to use Low Impedance Meters
 - Intro to Labscopes
4. Electrical Circuits
 - Series Circuits**
 - Describe Series Circuit Theory
 - Parallel Circuits**
 - Describe Parallel Circuit Theory
 - Series Parallel**
 - Describe Series Parallel Circuit Theory
5. Electromagnetism, Capacitance
6. Diode Operation & Testing Tips
7. Transistor Operations
 - HSD & LSD Drivers
 - Bias Voltage Operation
8. Schematic Interpretation Skills
 - Understanding Schematics
 - Diagnostics with Schematics
9. Hybrid Batteries & Relay Operations
10. Hybrid Battery/
Cables Monitoring Systems

This class is designed for Starting to Intermediate level of technicians and review for Advanced Technicians. This class is a good prerequisite for the Advanced Labscope Class.

REGISTER ONLINE @ carpartswarehouse.net

Warrensville

Date: Monday, March 23rd, 2020

Time: Dinner: 5-6pm Class: 6-9pm

Location: CPW Warrensville Heights
18525 Miles Rd, Warrensville Hts, OH 44128

Cost: FREE to first 30 customers to register.

Copley

Date: Tuesday, March 24th, 2020

Time: Dinner: 5-6pm Class: 6-9pm

Location: CPW Copley
2799 Copley Rd, Copley, OH 44321

Cost: FREE to first 30 customers to register.

Perry

Date: Wednesday, March 25th, 2020

Time: Dinner: 5-6pm Class: 6-9pm

Location: CPW Perry
3382 North Ridge Rd, Perry, OH 44081

Cost: FREE to first 30 customers to register.

Elyria

Date: Thursday, March 26th, 2020

Time: Dinner: 5-6pm Class: 6-9pm

Location: CPW Elyria
149 Midway Blvd, Elyria, OH 44035

Cost: FREE to first 30 customers to register.