

## Troubleshooting CANbus "Hands-On" 2-DAY SEMINAR



This course is designed for anyone requiring an understanding of the CANbus System and needing to advance their skills further as it applies to the everyday workplace. This is NOT ONLY a seminar on theory; the discussion will be on practical applications.

**"Hands-On" Training.** Students will build and experiment with circuits constructed on our fully equipped Tradecraft Platform™ simulators. Anyone desiring an in-depth understanding of the basic function of Controller Area Network system (CANbus), component operation and accepted troubleshooting steps will benefit from this training. Time is spent equally between lecture and hands-on lab experiments.

### Introduction to CANbus Systems

- Overview of CANbus
- History of CAN
- Advantages of CAN
- How CANbus Works
- CANbus Signal
- CANbus Protocols

### CANbus Diagnostics

- OBD-II
- J1939 Protocols
- ECM Engine control Modules
- Common U Codes
- Most Common Problems
- Troubleshooting Approach

### High End Readers

- Advanced Diagnostic
- Troubleshooting Capabilities

### **TROUBLESHOOTING TOPICS:**

- Diagnostic Tools
- Dividing Networks
- Isolating Modules
- Oscilloscope
- De-coding Signals in CANbus
- Identifying a Slow Responding Module

### CANbus Architecture and Components

- OBD-II
- CANbus Signal
- CANbus Network
- J1939 Truck and Heavy Duty

### Step-by-Step Troubleshooting

- Preliminary Electrical Checks
- Meter Checks
- Wiring Issues

### Advanced Troubleshooting Techniques

- Signal Analysis
- Detecting Interference Modules
- Configure and Reprogram Codes
- Diagnosing Modules



### COURSE INCLUDES

- 1.6 CEU'S
- Lab Manual
- Certificate of Completion
- All Materials and Supplies

### REGISTRATION FORM

ENROLLMENT ARRANGEMENTS SHOULD BE RECEIVED A MINIMUM OF SEVEN DAYS PRIOR TO THE SEMINAR DATE

**PLEASE USE A SEPARATE FORM FOR EACH COURSE NUMBER**

COURSE LOCATION: \_\_\_\_\_ COURSE DATES: \_\_\_\_\_

STUDENT: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PERSON TO CONTACT IF THERE IS A CHANGE IN SCHEDULE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EXT: \_\_\_\_\_

EMAIL: \_\_\_\_\_

### SELECT PAYMENT METHOD:

\_\_\_\_\_ STUDENT(s) @ \$1,395 PER PERSON TOTAL \$ \_\_\_\_\_

CHECK IS ENCLOSED

USE OUR PURCHASE ORDER NO. \_\_\_\_\_

VISA  M/C  AMEX CARD HOLDER \_\_\_\_\_

CARD NUMBER: \_\_\_\_\_ EXP: \_\_\_\_\_ CVV: \_\_\_\_\_

### Class Schedule:

- 7:30 A.M. – 3:30 P.M.
- LUNCH (NOT PROVIDED)
- 11:00 A.M. – 12:00 P.M.

ENROLL TODAY, classes fill quickly  
2-Day Seminar \$1,395 Per Person  
On-Site Programs Available

