

ELECTRICAL REFRESHER

Wednesday, May 13 to Thursday, May 14

Course Description

This course is a hands-on basic electrical overview designed for automotive and HD technicians. **No prerequisite knowledge is required.** Major topics include:

- What is electricity?
- Current, voltage and resistance
- Electrical laws
- Digital Multimeter (DMM) functions
- Basic circuits
- Circuit failures and diagnostic techniques

During the course, the technician will be provided with information to assist in preparation for the following exams administered by the Emergency Vehicle Technician Certification Commission (EVTCC) and the National Institute for Automotive Service Excellence (ASE):

F4 – Fire Apparatus Electrical Systems

A6 – Auto – Electrical/Electronic Systems

T6 – Medium/Heavy Truck – Electrical/Electronic Systems

Class duration: 2 days (16 hours)

Maximum class enrollment: 18 students

A/C SERVICE BEST PRACTICES
Friday, May 15 to Saturday, May 16

Course Description

This course is designed for automotive and HD technicians, focusing on best practices for diagnosis and service of mobile A/C systems. Major topics include:

- A. A/C theory of operation refresher
- B. System performance checks
- C. Visual inspection of major components
- D. Refrigerant identifier operation
- E. RRR machine preparation
- F. Gauge readings diagnostics
- G. Leak detection best practices
 - 1. Electronic
 - 2. Fluorescent dye
 - 3. Forming gas
- H. System service best practices
- I. R1234yf update

During the course, the technician will be provided with information to assist in preparation for the following exams administered by the Emergency Vehicle Technician Certification Commission (EVTCC) and the National Institute for Automotive Service Excellence (ASE):

E3 – Ambulance Heating, Air Conditioning, and Ventilation Systems

A7 – Auto – Heating and Air Conditioning

T7 – Medium/Heavy Truck – Heating, Ventilation and Air Conditioning (HVAC)

Class duration: 1.5 days (12 hours)

No enrollment limit

ELECTRICAL REFRESHER
Monday, May 18 to Tuesday, May 19

Course Description

This course is a hands-on basic electrical overview designed for automotive and HD technicians. **No prerequisite knowledge is required.** Major topics include:

- What is electricity?
- Current, voltage and resistance
- Electrical laws
- Digital Multimeter (DMM) functions
- Basic circuits
- Circuit failures and diagnostic techniques

During the course, the technician will be provided with information to assist in preparation for the following exams administered by the Emergency Vehicle Technician Certification Commission (EVTCC) and the National Institute for Automotive Service Excellence (ASE):

F4 – Fire Apparatus Electrical Systems

A6 – Auto – Electrical/Electronic Systems

T6 – Medium/Heavy Truck – Electrical/Electronic Systems

Class duration: 2 days (16 hours)

Maximum class enrollment: 18 students

EMERGENCY VEHICLE HYDRAULIC SYSTEMS
Wednesday, May 20 to Thursday, May 21

Course Description

This course is designed for the emergency vehicle technician, focusing on best practices for diagnosis and service of mobile hydraulic systems.

NOTE: Each student must bring a personal laptop/tablet to fully participate in the course.

Major topics include:

1. Hydraulic principles
2. Hydraulic systems
 1. Components
 2. Schematics
 3. Description of operation
 4. Emergency vehicle applications
3. Hydraulic system diagnosis
4. Hydraulic system service

During the course, the technician will be provided with information to assist in preparation for the following exams administered by the Emergency Vehicle Technician Certification Commission (EVTCC):

F5 – Aerial Fire Apparatus

F8 – Hydraulics Systems

Class duration: 1.5 days (12 hours)

No enrollment limit