



# COLORADO

## EMERGENCY VEHICLE TECHNICIANS ACADEMY

### **PUMP MAINTENANCE & REPAIR**

Instructors: Chris Nelson and Jay Powell

#### **4.5 Day Course**

**Class Overview:** This course is designed to acquaint students with all levels of experience with the principles, theories, installations, applications, and standard inspection practices associated with fire pump maintenance, repairs and annual pump testing requirement for pumping fire apparatus. This course provides a working knowledge of common pump types, pressure controllers/governors, installation of various fire pump components and related accessories. Practical hands on experience will improve the ability to correctly draft and flow water to analyze pump performance and implement accurate fire pump testing, tank-to-pump flow testing and testing Intake Relief Valves. This class covers a wide range of current NFPA 1901 and 1911 Testing Standards as well as fulfills the primary education requirement for EVT Fire Apparatus Technician Level I Certification requirements for the EVT. This class will consist of classroom and hands-on training.

### **AERIAL MAINTENANCE**

Instructor: Mike Adams

#### **4.5 Day Course**

**Class Overview:** Aerial Maintenance and operations. This class will have info needed to obtain EVT F5. This class will also consist of in class instruction on NFPA 1911, NFPA 1901 standards as they apply to the maintenance, inspection and specifications of aerial apparatus. There will be hands-on instruction in proper aerial maintenance and inspections. We will spend a ½ day looking at aerial failures and how they have affected the current standard that aerials are built to today. We will also address failures that have occurred due to lack of maintenance. This class will consist of classroom and hands-on training.

## **ADVANCED ELECTRICAL**

Instructor: Kevin Roberts

### **5 Day Course**

Class Overview: This Electrical Class is designed to prepare the students to take the EVTCC E-2 Electrical Test and much more. It delves into Electron Theory, AC and DC circuits, Critical Thinking Skills, diagnostic principles, proper use of diagnostic equipment, networks/multiplexing and gives the students opportunity to apply what they learn with hands-on experience. We offer instruction regarding the use of the Test Light, Digital Meter, Scan Tool, Lab Scope, Thermal Camera, Power Probe, Back Probes, and Jumper Wires. We bring test boards that can be configured to allow the students to find voltage drops. We test relays, loads, inverters, and other electrical components. This class will consist of classroom and hands-on training.

## **BASIC WELDING MIG/TIG**

Instructors: Mike Hanscome/Kyle Cadarette

### **4 Day Course**

Class Overview: This is a basic welding class. This class will include 2 days of MIG welding and 2 days of TIG welding. This class will be taught by 2 AIMS College instructors in the Automotive Technology Building. All supplies and PPE will be provided. This class will consist of classroom and hands-on training.

## **TIRE MANAGEMENT FOR THE FLEET MANAGER**

Instructor: T.J. Tennent

### **2 Day Course**

Course Overview:

This course is designed for Government Fleet Managers, Fleet Manager and Law Enforcement Personnel.

At the end of this course the fleet manager should be equipped to:

- Determine the proper tire and tire application for his/her fleet
- Determine if the fleet is getting the proper mileage out of the tires
- Determine why the fleet tires are coming out of service (if removed before wear out)
- Significantly reduce fleet liability
- Understand the difference between Passenger, Euro-Metric, Euro-Commercial, Medium Commercial and Commercial Tires and how they should be applied.
- Understand vehicle loads vs tire pressure
- Know which brand of tire they should use and why
- Know what tires are good for their Emergency Vehicles
- Determine tire maintenance procedures for their fleet
- Will be able to show fleet savings in dollars

## **LEVEL 1 EVT (F1/F2)**

Instructor: Brian Brown

### **3 Day Course**

**Class Overview:** Fleet Design and Performance Challenges – A sound apparatus/vehicle specification and maintenance program are important to all government agencies of all sizes. Be it a volunteer, combination or career department, reliable vehicles and equipment in appropriate working order is essential to providing all public services to the communities served in a professional and timely manner. Fire, EMS, Wildland, ARFF and HazMat apparatus and equipment that are improperly designed and/or break down frequently due to the outlay and use will lead to an interruption in service to the agency and the community. Having a well thought out and credible plan will not only benefit the departments operations and fleet division and the community it serves, but also the direction of those future needs and funds.

Below is a brief overview of the courses outlined in the current NFPA 1901 and 1911 Editions along with the essential Emergency Vehicle Technician Levels required for Certification.

This course is also applicable to driver/operators, engineers, training officers and apparatus committee members.

### **LEVEL 1 / F-1 Maintenance, Inspection & Testing**

This course covers the maintenance, inspection and testing of Fire Apparatus as described in NFPA 1911, Standard for the Inspection, Maintenance, Testing and Retirement of In-Service Fire Apparatus.

### **Level 1 / F-2 Design & Performance Standards and Preventative Maintenance of Fire Apparatus**

This course covers the standards for fire apparatus as described in NFPA 1901, Standard for Automotive Fire Apparatus, and in NFPA 1911, Standard for the Inspection, Maintenance, Testing and Retirement of In-Service Automotive Fire Apparatus

## **BASIC ELECTRICAL**

Instructor: Aims College Instructors

### **4.5 Day Course**

Course Overview:

Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. It also focuses on multimeter usage and wiring diagrams.