



# COLORADO EMERGENCY VEHICLE TECHNICIANS ACADEMY

## 2019 ACADEMY INSTRUCTOR & CLASS BIOS

### PUMP MAINTENANCE & REPAIR

#### Instructor: Brian Brown

Brian Brown is a Colorado native and has been in the fire service, for one department, for 30+ years. Currently, Brian oversees the Fleet Services Bureau's purchasing, liquidation with quality maintenance and annual inspection service for not only South Metro Fire Rescue's fleet of vehicles and equipment and has established the Fleet Services Bureau as an authorized service center for multiple emergency vehicle and product manufacturers. He also chairs the Authorities Apparatus Committee and teaches the fire apparatus maintenance and fire pump theory and operation classes for his departments engineer academy.

Brian is also an academy instructor for the Colorado Fire Mechanics Associations Annual Fire Pump Theory and Accessories 36-hour class, has and contributes to Fire Engineering and Fire Apparatus Magazine. He is also an EVT Testing Proctor and a participant of the EVT Validation Committee and performs fleet analysis and consulting when called upon.



#### 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.



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#### **AERIAL MAINTENANCE**

##### **Instructor: Mike Adams**

Mike Adams is the fleet operations manager for South Metro Fire Rescue in Centennial CO. He is an ASE master certified heavy truck technician, master certified EVT fire apparatus technician, master certified EVT ARFF apparatus technician, master certified EVT ambulance technician, Level II EVT management certified. Adams also holds a handful of Automotive ASE certifications along with an advance level diesel electronics ASE certification. He has an associate's degree of applied science in vocational studies and is currently pursuing a bachelor's degree in business administration. Adams has been an EVT for 14 years and a heavy truck technician 21 years. Adams was selected as Firehouse's 2015 Emergency Vehicle Technician of the year. Mike has been married for 21 years, has 4 children, enjoys hiking, obstacle racing, and most of all 4 wheeling and working on his Land Cruiser.

##### **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.



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#### **CHASSIS ELECTRICAL**

##### **Instructor: Kevin Roberts**

Kevin Roberts was the second of seven children raised on a farm in central Wisconsin and he discovered early on that he got along better with the equipment than with the animals.

He started his own shop in January of 1989, specializing in fleet service. This turned to ambulances and other emergency vehicles. He has served on the EVTCC Validation Conference since 2002, becoming an EVTCC board member in 2014 and President in 2018.

He attended CarQuest Technical Institute classes for almost 2 decades and was asked to become a trainer in 2012.

He has written articles for Police Fleet Manager magazine and been an adjunct instructor at Nicolet College in Rhinelander.

He has developed and given Ambulance Service classes for California, Oregon, and Colorado Fire Mechanics associations and is a member of Wisconsin Association of EVT's.

##### **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, 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.



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#### **F2 EXAM PREP FIRE APPARATUS DESIGN AND PERFORMANCE & F3 EXAM PREP FIRE PUMPS AND ACCESSORIES**

**Instructor: Robert Burley**

Originally from Pennsylvania Rob moved to the Florida Key in 1980 after high school to find a better job, while working a friend invited him to the local fire department, and that's where a love for the fire service started which would take his life in a new direction becoming involved with Tavernier Volunteer Fire Rescue in 1987. After seeing a need for fire apparatus maintenance in the Florida Keys he trained at Florida fire mechanics association and opened Fire-Tech repair service in 1990. Working on the 106 mile chain of islands between Key Largo and Key West and on apparatus as old as a 1962 Howe and as new as a 2019 Sutphen, he has seen a lot of changes in the apparatus of the fire service. He was the first instructor to teach EVT classes at the Florida State Fire College and has taught for Eone in Ocala, FL. and for the Florida EVT annual training academy in Daytona, FL for several years. Rob not only repairs apparatus but has also operated them as a career firefighter for the past 20 years as a Captain with Islamorada Fire Rescue.

**Class Overview:**

These 2 day classes will cover the objectives and reference materials based on the requirements of the EVT commission, including:

- Definitions and terms
- General design and performance requirements of all aspects of the fire pump
- Out of service criteria
- Hydraulic and Mechanical Principles
- Annual Testing requirements of the fire pump

This class will consist of classroom training.

Emergency Vehicle Technical Support was formed in 2003 with the idea that people in the fire service industry deserve the best when it comes to the maintenance of the equipment they depend on.

Founded by Ken Stevens, EVTS represents a career of experience of 40 years in with large trucks, 34 of them in Fire industry with fire apparatus including manufacturing from the frame rail to final testing, field support, warranty support and product training and EVT perp Classes

Starting in 2012 EVTS decided do training only EVT perp classes. With 47 different training classes a year handling over 900 students a year we fast becoming the large training company in the country for the Fire Technician's.



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#### **BASIC WELDING**

**Instructor:** Mike Hanscome/Kyle Cadarette

**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 Collage instructors in the Automotive Technology Building. All supplies and PPE will be provided. This class will consist of classroom and hands-on training.

#### **FOAM PRO**

**Instructor:** Dan Richardson

**Class Overview:**

This class will cover proper operation, system components, common failures and repairs of various Foam Pro foam systems. This class will consist of classroom training including demonstrative props.

#### **CHARGING SYSTEMS**

**Instructor:** Mark Timerman

I have been a mechanic for over 30 years and for the last 11 years have been working for Leece Neville as a technical service representative. I have worked on everything from autos to firetrucks snow removal equip but mostly transit bus for the last 20 years of being a mechanic. I have been a volunteer fireman for 20 years and was a captain at a very busy fire department.

**Class Overview:**

This class will cover the ABC's of charging and starting systems: Alternator, Batteries and Cabling. Emphasis is put on voltage drop tests, and to think of them as a maintenance item. Detail is spent on how the battery, alternator and cabling work and how they interact with each other. Starter operation is covered in depth including relay systems. This class will consist of classroom and hands-on training.



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#### **SPICER DRIVELINE**

**Instructor: Allen Sarkozy**

**Class Overview:**

This class will cover proper installation, diagnosis, maintenance and repair of driveline systems. This class will review various causes of driveline failures and how to prevent them. This class will consist of classroom training.

#### **AIR CONDITIONING SYSTEMS**

**Instructor: Steve Jones**

- Director, Premair Mobile Climate Control.
- MACS Certified TTI Instructor and EPA Section 609 Test Administrator.
- AC Master Product Specialist and Journeyman Technician since 1990.
- AC Product Development and Field Testing Consultant since 2001.

**Class Overview:**

This class will cover heavy and light duty air conditioning system operations. This class will include how to properly diagnose and repair AC systems. Following the completion of class the students will have an opportunity to take the MACS certification test. This class will consist of classroom and hands-on training.