



2021 Spring Academy

April 26 - April 30, 2021

Riverside, CA &
Rancho Cordova, CA



Course Catalog

The Academy is proud to offer over 30 great courses to support your EVT staff in their efforts to stay cutting-edge and efficient with the latest technology. Also included in the training is the California Emergency Equipment Showcase for learning about the newest products, and many events where mechanics and fire fighters can network to build resources for problem-solving and further growth.

Online registration is now open.

The deadline to register is April 12, 2021.

Late fees apply after April 2, 2021.



CERTIFICATION CLASSES

LEVEL I

CFM-115 FIRE PUMPS AND ACCESSORIES Monday-Friday 36 hours

THIS CLASS WILL BE HELD IN RIVERSIDE, CA

This class is designed as an entry level course to acquaint students with the principles, theories, installations, applications, and standard inspection practices associated with the maintenance, repairs and operational pump testing requirement for fire apparatus. The course provides a working knowledge of common pump types, various pump drivers, and controllers, installation of components and related accessories. Practical hands on experience will improve your ability to analyze pump performance and implement correct inspection, repair and maintenance procedures. This class fulfills partial education requirement for California State Fire Marshals Fire Mechanic Level I certification.

Required Materials: PPE as required by agency: i.e., boots, gloves, helmet, hearing and eye protection are recommended. A hand held calculator is also recommended for this class.

NOTE: Pump test portion of class is held at different locations requiring students to have transportation.

Instructor: Chris Belflower *Chris has been involved with the fire service and fire apparatus since 1994 when he began his fire service career as a Firefighter/EMT. He is currently involved with the City of Mahtomedi Fire Department in Minnesota. Chris worked for 14 years as a fire pump training specialist with Waterous Company and is now a fire instructor and consultant.*

LEVEL II

CFM-215A ELECTRICAL SYSTEMS 2A Monday-Friday 36 hours

THIS CLASS WILL BE HELD IN RIVERSIDE, CA

This course is an overview of automotive and heavy truck electrical systems covering topics in basic electricity including electrical theory, battery theory, meters, alternators and cranking motors, advanced electricity, the application of the above theories plus troubleshooting of entire systems. Additional course content will include performance requirements of fire apparatus electrical systems, components of electrical systems and preventive maintenance and troubleshooting activities as per NFPA 1901. Students will also be provided with a thorough understanding of the use of diagnostic equipment, batteries, the construction and operation of starting systems, charging systems and components, and the accepted practices used to diagnose and repair electrical systems.

This course prepares the technician for the California State Fire Mechanics Level II Certification exam.

Required prerequisites are completion of FM-109: Electrical Systems 1A or successful completion of the Basic Electrical Challenge Pre-test. *This class fulfills partial certification requirements for Level II fire mechanic.*

Required Prerequisite: FM-109: Electrical Systems I **Required Materials:** DVOM and calculator

Instructor: Tom Tengdin *Tom Tengdin is an instructor for Pacific Gas & Electric and a firefighter for the North County Fire Department. He has spent his career using his electrical expertise in fields ranging from rock concerts to firefighting.*

CERTIFICATION CLASSES (continued)

LEVEL III

CFM-215C AERIAL APPARATUS

Monday-Friday

36 hours

THIS CLASS WILL BE HELD IN RIVERSIDE, CA

This course will provide instruction for Emergency Vehicle Technicians on the repair and maintenance requirements of today's Aerial Fire Apparatus. Course objectives include: Defining the terms and phrases commonly used with aerial fire apparatus. Principles of safe application and operation of aerial devices. Understanding and identifying the operational physics of aerial apparatus. NFPA 1901 design requirements for aerial fire apparatus and apply NFPA 1911 testing, inspection, and documentation requirements of all aerial fire apparatus. Understand and identify aerial device hydraulic and electrical systems symbols and components including the application of accepted practices of service and repair of aerial apparatus. The class will include lecture, demonstration and hands-on instruction. This class fulfills partial certification requirements for California State Level III Fire Mechanic.

Required Materials: Calculator (non-cell phone for exam), coveralls and work boots

Instructor: Anthony (Tony) Bulygo Tony retired from the fire service as a Master Fire Mechanic for the Santa Clara County (CA) Fire Department after 38 years of service with experience in the diagnosis and repair of all major fire apparatus. Throughout his career, Tony has received training and certification from numerous apparatus and component manufacturers. Tony instructs the aerial apparatus class not only for the California Fire Mechanics Academy, but also for the Oregon, Colorado and Washington state fire mechanics academies. Tony also is an instructor for the Santa Clara County and San Jose Fire Departments engineer academies. Tony is the sole proprietor of Bulygo & Associates, a firm that provides consulting, inspection, investigation, specification writing and training to the fire service.

CFM-216 AMBULANCE SERVICE AND MAINTENANCE

Monday-Friday

36 hours

THIS CLASS WILL BE HELD IN RANCHO CORDOVA, CA

This course will discuss and review the latest manufacturing, NFPA, KKK & AMD standards and criteria used to build, service and maintain today's ambulances. Course content will include Blood Borne Pathogen awareness, vehicle body & build design, vehicle service, repair and maintenance techniques that are used to maintain OEM ambulance chassis, motor, drive train, steering, suspension, brakes, oxygen system, suction system and air conditioning/heating system. Course will provide an opportunity for students to research different design and build techniques used by today's ambulance manufacturers. This class fulfills partial requirements for California State Fire Marshals Fire Mechanic Level III state certification.

Required Materials: DVOM, coveralls, work boots and non-cell phone calculator

Instructor: Kevin Roberts Kevin Roberts was raised on a farm and discovered early on that he got along much better with the machinery than with the animals. In 1989 he opened Roberts Repair, servicing cars, trucks, and equipment. In 1996 the county approached him about servicing their ambulance fleet. He was able to become certified as an EVT Master Ambulance technician. This led Kevin to be invited to become part of the EVTCC Validation conference as a committee member working on test development for EVTCC Ambulance Certification. He sits on the board of directors of the EVTCC. Roberts Repair has expanded to cover the state of Wisconsin, and performs warranty work for a number of ambulance manufacturers. In the early 2000's Kevin wrote a column on maintenance subjects for Police Fleet Manager Magazine. He is presently a trainer for Carquest Technical Institute, teaching technicians throughout the Midwest.

LEVEL III

CFM-217 HUMAN RESOURCE MANAGEMENT FOR COMPANY OFFICERS – COMPANY OFFICER 2A

Monday—Friday 40 hours

THIS CLASS WILL BE HELD IN RANCHO CORDOVA, CA

This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities. In addition, this course will summarize how internal and external influences affect the manager and how to effectively deal with these influences, provide an overview of supervision, management, and leadership concepts, practices, and theories. This course aligns with the new developing EVT certification series that are currently under revision. This course replaces the Fire Management 1 course that was required for California State certification.

Instructor: Charles Hurley Charles Hurley currently serves as Fire Chief of the NASA/JPL Fire Department in Pasadena California. Chief Hurley has over 36 years in the Fire Service with 16 years as a Chief Officer. Chief Hurley is a certified instructor by the California State Fire Marshal and teaches the Level-1 and 2 Command and Management courses.

CONTINUING EDUCATION

FF-501 KNOWING YOUR APPARATUS Monday-Thursday 32 hours

THIS CLASS WILL BE HELD IN RANCHO CORDOVA, CA

This hands-on class will provide a detailed mechanical review or foundation for any individual involved with Emergency Vehicles including: Firefighters, Engineers-Operators, Officers and Maintenance Personnel. This program will cover the unique problems and issues associated with emergency vehicle functions, specifications and daily operation. Additionally, the class will focus on how systems and components work, inspections, troubleshooting and testing techniques to meet the operational readiness requirements specific to emergency vehicles as documented in NFPA 1911 and NFPA 1002.

Instructor: Boyd Clegg Boyd has always had a passion for teaching as well as working on anything mechanical. Boyd began his career as a general mechanic and smog technician. His fire service quest began in 1975 as a volunteer with the San Ramon Fire Department. Here he got his first experience with fire apparatus maintenance. He was hired in 1978 as a full time firefighter and continued working on the department equipment. He advanced through the ranks from Firefighter to Engineer, Captain and on to Battalion Chief prior to retirement in 2005. In 1982 he also began serving his community as a volunteer firefighter for the Vacaville Fire Protection District. He served as Assistant Chief with that agency until retiring in 2015. Other classes he has taught include: Rescue Systems, Auto Extrication, Pump Operations, Automotive Electrical Systems and Fire Ground Operations.

Certification Re-Take Exams

A student who does not pass his certification exam is allowed to re-take the exam once. Re-take exams will be taken the same day after a short review given by the instructor. Students will be notified within the hour after finishing their exam if a re-take is needed.

ACADEMY DETAILS

GETTING HERE

-Sacramento International Airport is located approximately 25 miles from the California Fire & Rescue Training Authority. Car rentals are readily available at the airport. Students will need to make their own transportation arrangements. CFMA is not able to provide shuttle service for students.

-Ontario International Airport is located approximately 27 miles from the Ben Clark Training Center. Car Rentals are readily available at the airport. Students will need to make their own transportation arrangements. CFMA is not able to provide shuttle service for students.

HOTELS-

We are not having a host hotel for this years academy but we do have a discounted rate for students

NORTH: Marriot Courtyard Rancho Cordova. Make sure you mention code 10113 when making your reservation to insure you will receive the low conference rate. They are located at 10683 White Rock Road, Rancho Cordova, CA 95670. Reservations can be made by calling (916) 638-3800.

SOUTH: Ayres Hotel and Spa Moreno Valley. Make sure to mention the CAL FIRE preferred rate when making your reservation to insure you will receive the low conference rate. They are located at 12631 Memorial Way, Moreno Valley, CA 92553. Reservations can be made by calling (951) 571-4141 ext. 0.

EXPLANATION OF FEES

Registration for all classes is \$550 for the class and \$80 for lunch per student. State certification classes (*all classes beginning with "CFM"*), require an additional \$140 state course fee for the State Fire Marshals office. Due to COVID-19 rules and regulations lunch is now provided daily (Monday—Thursday) for every student. Textbooks and/or handouts will be provided in class at no additional cost.

CLASS CONFIRMATION

Students will be issued a receipt once registration and payment are received by the CFMA. CFMA reserves the right to cancel classes as required. Students will be contacted if there is any need to change classes. Class confirmations will be emailed by April 19, 2021. **It is the student's responsibility to check email and bring the confirmation notice with you to Academy In-Person Registration.** Confirmation materials will also contain information about what equipment the student will be required to bring to class. **It is the student's responsibility to come to class prepared with the required equipment.**

STUDENT REGISTRATION FORM

NAME: _____

First

MI

Last

ADDRESS: _____

Street

City

State

Zip

TELEPHONE _____

Cell

Work

Home

FIRE DEPARTMENT/AGENCY: _____ **SFT # OR LAST 4 SSN** _____

Course Selection

Monday	Tuesday	Wednesday	Thursday	Friday

Students registering individually may complete the form below and fax credit card registrations to CFMA at (916) 333-5014 or mail check registrations to CFMA, 3318 Howard Ave, Ste 140, McClellan, CA 95652.

Priority will be given to students enrolling online. Please call (916) 333-5044 if you have questions.

Agencies registering multiple students use Multiple Student Registration Form in addition.

Payment Information

Credit Card VISA MASTERCARD AMEX EXP. DATE: _____

Card Number: _____ Security Code: _____

Please Print Name on Card: _____

Billing Address: _____

No. & Street

City

State

Zip

Authorized Signature: _____

Remit by email to cfm.academy@gmail.com

CFMA 3318 Howard Street, Bldg. 338 Suite 140, McClellan, CA 95652

Receipts will be issued upon payment received.

Please note: Cancellation/Substitution/Refund **Policy** Simple substitutions involving changing the name of the student but retaining the same class will be made as a courtesy to our students and supporting agencies. Substitutions that involve a change of student & class will be made only as space is available and with a \$50 change fee after April 12, 2021. Students or agency officials requesting cancellation and refund must do so in writing no later than April 12, 2021. Only the individual or entity who paid for the registration may request a substitution/cancellation/refund. **There is an administrative processing fee of 20% assessed on all cancellations**, including those on purchase order.



MULTIPLE STUDENT REGISTRATION FORM

PAYING AGENCY: _____

BILLING ADDRESS: _____
No & Street City State Zip

(Address Must Match Credit Card Billing Address)

AGENCY TELEPHONE: _____ **SUPERVISOR:** _____

STUDENT(S) NAME: **(PLEASE INCLUDE A STUDENT REGISTRATION FORM FOR EACH STUDENT LISTED BELOW)**

- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

# Students	# Days	DESCRIPTION	UNIT PRICE	TOTAL
		Academy Registration Fee	\$ 550.00	
		Academy Lunch Fee	\$ 80.00	
		State Certification Class Fee <i>(All classes beginning with CFM)</i>	\$ 140.00	
		Late Registration Fee <i>(received after 4/2/21)</i>	\$ 50.00 Per student	
			TOTAL AMOUNT DUE	\$

Payment Information

VISA
 MASTERCARD
 EXP. DATE: _____
 PO # _____

Card Number: _____ Security Code: _____

Please Print Name on Card: _____

Billing Address: _____
No. & Street City State Zip

Authorized Signature: _____

Remit by email to cfm.academy@gmail.com
CFMA 3318 Howard Street, Bldg. 338 Suite 140, McClellan, CA 95652