

42ND ANNUAL

EMERGENCY VEHICLE TECHNICIAN TRAINING ACADEMY

APRIL 2 — 6, 2012

MCCLELLAN BUSINESS PARK, SACRAMENTO, CALIFORNIA



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The California Fire Mechanics Academy, Inc., in conjunction with the California Fire Chiefs Association, American River College Sacramento Regional Public Safety Training Center, and the Sacramento Metropolitan Fire District, is pleased to announce the 2012 emergency vehicle technician training program. There are several new and exciting classes being offered this year including classes designed specifically for firefighters, engineers and officers wanting to know more about the apparatus they are responsible for. The academy classes will once again be held at McClellan Business Park located in Sacramento, California. This converted former Air Force base provides the academy with the classrooms, shops and open spaces required to present the best possible program for our students.

This packet is designed to provide you with all the information you will need to complete the CFMA registration process. You will find classes specifically designed to provide the latest information regarding a variety of maintenance, service and repair activities related to fire apparatus and equipment. Please read through the entire packet prior to completing your registration paperwork. If you have any questions, do not hesitate to contact the CFMA administrative office.



CFMA ADMINISTRATIVE OFFICE

P.O. Box 678

North Highlands, CA 95660

PHONE: 916.727.7019

Fax: 916.727.2324

E-Mail: cfm.academy@gmail.com

Website: www.cafiremech.com

GENERAL INFORMATION

The 2012 California Fire Mechanics Academy provides a unique training opportunity for fire service personnel and emergency vehicle technicians. The classes are scheduled for April 2–6, 2012. Please read through the entire registration packet carefully. The information contained within the packet should provide you with the answers to any questions you might have regarding the academy program. The CFMA Board of Directors strives to provide the best possible continuing educational opportunities to fire personnel from throughout the country. Everyone is welcome to attend—there is something for everyone, from the beginner to the highly experienced emergency vehicle technician as well as our popular firefighter classes.

LOCATION

Sacramento, California once again provides the location for the annual academy. McClellan Business Park (formerly McClellan Air Force Base) located off of Watt Avenue in Sacramento is the home of the American River College Sacramento Regional Public Safety Training Center located at 5146 Arnold Avenue, McClellan, CA 95652, and the Sacramento Metropolitan Fire District fleet services headquarters and maintenance facility at 4425 Dudley Blvd., McClellan, CA 95652. In conjunction with these agencies, the CFMA Board of Directors is confident that this location will provide the best possible atmosphere and facilities for the varied academy classes.

AIRPORT

Sacramento International Airport is located approximately 18 miles from McClellan Park. Car rentals are readily available at the airport. In addition, the local Super Shuttle is also available (call 1- 800-BLUE VAN at least one day in advance). Students will need their own transportation. CFMA is not able to provide shuttle service for students.

BANQUET

One of the highlights of academy week is the annual banquet for all students, instructors, vendors, staff and special guests. It is scheduled for 7:00 pm on Thursday evening April 5, 2012 at a **NEW location** this year ~ 3034 Peacekeeper Way, McClellan, CA 95652. One banquet ticket is included with the weekly registration fee. Students attending classes on a “Daily Rate” basis do not have a banquet ticket included, but are certainly welcome. Additional banquet tickets are available to purchase for \$40.00 each.

CLASS CONFIRMATION

Every effort will be made to register students in their first choice class selection if there is space available. CFMA reserves the right to cancel classes as a result of low enrollment. Therefore, please indicate both a second and third choice on your class schedule. Each student will be notified individually by mail at the address provided on his/her registration form. Class confirmations will be mailed by the middle of March, 2012. In addition, area maps, last minute instructions, program changes, etc. will be included so be on the lookout for your confirmation materials. **Please bring your confirmation packet with you.**

FEES

Students may register for the entire week of classes for \$450 per person. Those students wishing to attend on a daily basis may do so for \$150 per day. State certification classes (***all classes beginning with "CFM"***), require an additional \$80 fee for the State Fire Marshals office. Textbooks and/or handouts will be provided in class at no additional cost. Check the **INVOICE INFORMATION** form carefully for required fees. Personal check, company check, department purchase order or credit card information must accompany registration paperwork. Returned checks are subject to a \$25 service charge.

Registration processed with a purchase order will be invoiced monthly until paid and must be paid no later than 30 days after the completion of the academy. General registration closes February 15, 2012. Registrations received after that date will be assessed an additional \$50 per student for late registration fees. Student substitutions may be made by contacting the CFMA office and will be assessed an additional \$50 processing fee. No registrations or substitutions will be accepted after March 15, 2012.

CANCELLATION/REFUND POLICY

Notification of registration cancellation and refund requests must be submitted in writing no later than March 10, 2012. Refund requests must be from the Fire Chief or City Administrator on official letterhead and will be evaluated on an individual basis by the CFMA Board of Directors at the conclusion of the academy. Refund requests will not be considered if received after the March 10th deadline or if students do not actually attend classes. There is an administrative processing fee of 20% assessed on all cancellations, including those on purchase order.

HOUSING OPTIONS

The official host hotel for the 2012 academy is the **Lions Gate Hotel** located at McClellan Park—just two blocks from where most classes will be held. All official academy functions will take place there including Sunday afternoon academy check-in, the Academy 2012 opening ceremony, and all hospitality functions. Make sure that you mention CFMA when making your reservation to insure you will receive the low conference rate of only \$86 per night. They are located at 3410 Westover Avenue, McClellan, CA 95652. The Lions Gate offers deluxe accommodations including several two, three and four bedroom options, restaurant, bar, hot breakfast and outdoor swimming pool. There is an additional charge for roll-away beds.

Host Hotel



LIONS GATE
HOTEL & CONFERENCE CENTER

3410 Westover Ave.
McClellan, CA 95652
www.lionsgatehotel.com

\$86/night

single or double

Plus applicable state & local taxes

FOR RESERVATIONS

916-643-6222

GROUP CODE: FIRE12

or online at

[Http://booking.ihotelier.com/istay.jsp?
groupID=561406&hotelID=10307](http://booking.ihotelier.com/istay.jsp?groupID=561406&hotelID=10307)

Accommodations for the California Fire Mechanics Academy are to be handled directly between the student/agency and the host hotel. Please be aware that there are a limited number of rooms blocked for the CFMA at this low rate so act quickly! Once the CFMA room block has been met, prevailing hotel rates will apply.

Other Area Options



*2001 Point West Way
Sacramento, CA 95815*

\$84/night—single

\$94/night-double

Plus \$6 per night parking fee

Plus applicable state & local taxes

FOR RESERVATIONS

800.222.8733

**Group Code
CFM**



*2224 Auburn Blvd.
Sacramento, CA 95821*

\$86/night

Plus applicable state & local taxes

*FREE Breakfast Buffet
And Wireless Internet*

FOR RESERVATIONS

916.923.1100

**Group Code
Fire12**

CALIFORNIA EMERGENCY EQUIPMENT SHOWCASE

The CFMA Board of Directors is determined to bring state-of-the-art fire apparatus and emergency equipment to students as well as agency personnel wishing to attend the only fire apparatus show in Northern California! This event provides the participants with the opportunity to view the displays and apparatus, talk with factory representatives, and ask specific questions of manufacturers in a casual, relaxed atmosphere. Students are given release time from classes to attend the show.

THURSDAY

APRIL 5, 2012

Show Hours: Noon ~ 5:00 pm

*** NEW INDOOR LOCATION ***

3034 Peacekeeper Way

McClellan, CA 95652



ASSOCIATION MEMBERSHIP INFORMATION

The Mechanics Sections of the California Fire Chiefs Association invite you to become a member and attend informative meetings throughout the year. Hear technical presentations, take seminar classes that may be eligible for re-certification continuing education credits, exchange ideas, and expose your maintenance problems for possible solution. For membership information, contact the appropriate section directly.

BAKERSFIELD & NORTH:

ANTHONY BULYGO, TREASURER

15437 Lila Rose Court
Bakersfield, CA 93314
661-829-1448

SOUTH OF BAKERSFIELD:

JEFF KAHLER, VICE PRESIDENT

SCFMA- P.O. Box 911
Glendora, CA 91740
909-234-2950

EMERGENCY VEHICLE TECHNICIAN CERTIFICATION COMMISSION

Out-of-state students are NOT eligible to become California state certified fire mechanics. However, they may elect to take the EVTCC exams. The California Fire Mechanics Academy has been designated as a test site for the EVT Certification Commission exams. For an informational booklet and registration form, contact EVTCC at:

EVT CERTIFICATION COMMISSION, INC.

P.O. Box 894
Dundee, IL 60118

Phone: 847-426-4075 Fax: 847-426-4076

Technicians wishing to take EVT exams at the Academy MUST pre-register and pay the fees directly with EVTCC no later than 21 days prior to testing. Upon receipt of registration, a confirmation letter, objective list, and reference list will be sent. If a student wants to become certified in the state of California, you MUST take the California state exam at the conclusion of class. EVT is for non-California residents. Our classes may not prepare you for EVTCC testing. CFMA classes meet California requirements. **ALL EVT EXAMINATIONS WILL BE GIVEN ON FRIDAY, APRIL 6, 2012 AT NOON.**

SCHOLARSHIP OPPORTUNITIES

The California Fire Mechanics Academy, Inc. Board of Directors is proud to offer their scholarship program designed to assist individuals with expenses related to attending the academy. These scholarships are available to anyone meeting the established criteria. Contact the CFMA administrative office for further information and to obtain the application paperwork. The application deadline is January 1, 2012.

VINCENT MORELLO MEMORIAL SCHOLARSHIP

Vincent Morello was a fire mechanic for the City of New York for twelve years before being hired as a FDNY firefighter and served with Engine 283 in Brownsville and then Ladder 35 in Manhattan.

This scholarship shall be awarded to an individual who is **NOT** a resident of the State of California. Selection of the recipient shall be made by the Board of Directors of the California Fire Mechanics Academy, Inc. and shall include tuition and textbooks. Travel and hotel accommodations are not included. Anyone interested must contact the CFMA administrative office for the instructions, application and detailed selection criteria.

*Vincent made the supreme sacrifice
at the World Trade Center on 9~11~01*

MATTHEW R. WILL MEMORIAL SCHOLARSHIP



Matt Will was a 30 year old heavy equipment operator with the California Department of Forestry and Fire Protection who died October 8, 2007 as a result of a bulldozer rollover while battling the Colorado Fire in Monterey County.

This scholarship shall be awarded annually to any individual interested in attending the California Fire Mechanics Academy. Selection of the recipient shall be made by the Board of Directors of the California Fire Mechanics Academy, Inc. and shall include tuition and textbooks. Travel and hotel accommodations are not included. Anyone interested must contact the CFMA administrative office for the instructions, application & detailed selection criteria.



DONALD WISINSKI MEMORIAL SCHOLARSHIP

Donald Wisinski was a former President of the California Fire Mechanics Association Northern Section and a long-time member of the Education Committee of the California Fire Mechanics Academy.

This scholarship shall be awarded to a member of the Northern Section of the California Fire Mechanics Association. The scholarship will provide academy tuition and textbooks. Selection of the recipient shall be made by the Northern Section Board of Directors or their designee. Anyone interested must contact the Northern Section for instructions, application and detailed selection criteria.

FOR FURTHER INFORMATION, CONTACT

Shea Pursell ~ Northern Section President

E-Mail: Pursell.Shea@smfd.ca.gov

EUGENE ROBESON MEMORIAL SCHOLARSHIP

Gene Robeson was a founder of the Southern Section of the California Fire Mechanics Association and was very instrumental in establishing and supporting the California Fire Mechanics Academy.



This scholarship shall be awarded to a member of the Southern Section of the California Fire Mechanics Association. The scholarship will provide academy tuition and textbooks. Selection of the recipient shall be made by the Southern Section Board of Directors or their designee. Anyone interested must contact the Southern Section for instructions, application and detailed selection criteria.

FOR FURTHER INFORMATION, CONTACT

Jeff Kahler ~ Southern Section Vice President

E-Mail: jkahler@southcoastfire.net

CLASS SCHEDULE

Class #	Course Title	Total Hours	Mon 4/02	Tues 4/03	Wed 4/04	Thurs 4/05	Fri 4/06
State Certification Classes							
* These classes require the additional \$80 State Class Registration Fee							
CFM-115	Fire Pumps & Accessories *	36	8	8	8	8	4
CFM-215A	Electrical Systems 2A *	36	8	8	8	8	4
CFM-215B	Allison Transmissions *	36	8	8	8	8	4
CFM-215C	Aerial Apparatus *	36	8	8	8	8	4
CFM-216	Ambulance Service & Maintenance *	36	8	8	8	8	4
CFM-217	Management I *	40	9	9	9	9	4
Re-Certification Classes							
RCFM -1	Level 1 Re-certification	36	8	8	8	8	4
RCFM-2	Level 2 Re-certification	36	8	8	8	8	4
RCFM-3	Level 3 Re-certification	36	8	8	8	8	4
Firefighter Classes							
FF-501	Knowing Your Apparatus	32	8	8	8	4	4
FF-503	Knowing Your Aerial	16	8	8			
FF-504	Ground Ladder Testing	4					4
Level I Classes							
FM-103	Electrical Charging & Starting Systems	12			8	4	
FM-109	Basic Automotive & Truck Electronics	32	8	8	8	4	4
FM-110	Brake Systems & ABS	16		8	8		
FM-111B	Valves & Nozzles—Elkhart	4					4
FM-112	Pump Operation & Testing	16	8	8			
FM-117	Apparatus Safety Inspections	8	8				
FM-126	Wheels and Tires	4				4	
FM-127	Hydraulics & Rescue Tools	8		8			

CLASS SCHEDULE

Class #	Course Title	Total Hours	Mon 4/02	Tues 4/03	Wed 4/04	Thurs 4/05	Fri 4/06
Level II Classes							
FM-205	International Diesel Service	16			8	4	4
FM-206	Allison Transmission PM	12			8	4	
FM-210	Waterous Fire Pumps	16	8	8			
FM-211	Darley Fire Pumps	16	8	8			
FM-212	Hale Fire Pumps	16	8	8			
FM-216	Air Breathing Compressors	8			8		
FM-217	Secondary Brakes & Retarders	4				4	
FM-225	Maintenance, Service & Repair of CAFS	8	8				
FM-229C	Caterpillar Engine Tune-up & Troubleshooting	32	8	8	8	4	4
FM-230	Generator Service & Maintenance	8		8			
FM-231	Warning Equipment Service	8			8		
Level III Classes							
FM-303	Electrical Multiplexing Systems / PIERCE *	16			8	4	4
FM-308	Aerial Service & Maintenance	16			8	4	4
FM-311	Diesel Particulate Filters	8		8			
FM-324	Apparatus Refurbishing	8			8		
FM-331	Laws, Regulations & Standards	4					4
FM-332	Diesel Emissions	4				4	

CLASSES BEGIN PROMPTLY AT 8:00 AM



All 4 hour classes are MORNINGS

Monday–Wednesday: 8:00 am ~ 5:00 pm

Thursday : 8:00 ~ Noon

(except state certification classes)

Friday: All classes conclude at Noon



STATE CERTIFICATION CLASSES *Identified as "CFM" numbers*

CFM-115 [FIRE PUMPS AND ACCESSORIES](#)

Monday-Friday

36 hours

This class will acquaint students with the principles and theories associated with the maintenance, pump operation, and operational pump testing required for fire apparatus and equipment. Class fulfills partial education requirement for Level I state certification.

NOTE: Pump test portion of class is at a different location.

The student will provide PPE ~ Boots, gloves, helmet, hearing and eye protection

CFM-215A [ELECTRICAL SYSTEMS](#)

Monday-Friday

36 hours

This class will cover the theory, operation, and maintenance of electrical systems currently being used in fire apparatus. Class fulfills partial education requirement for Level II state certification. **See page 19.**

Required Prerequisite: FM-109: Basic Automotive and Truck Electronics

CFM-215B [ALLISON TRANSMISSION](#)

Monday-Friday

36 hours

This class will cover a thorough introduction, application, and general assembly. Training includes complete transmission teardown and rebuild, subassembly tear down, hydraulics, power flows, troubleshooting, parts and maintenance procedures. Class fulfills partial education requirement for Level II state certification.

CFM-215C [AERIAL APPARATUS](#)

Monday-Friday

36 hours

This class will cover the physical principles of manufacture, testing, and preventative maintenance of aerial devices commonly found in use by the fire service. Class fulfills partial education requirement for Level III state certification.

Required Materials: Calculator, coveralls and work boots

CFM-216 [AMBULANCE SERVICE AND MAINTENANCE](#)

Monday-Friday

36 hours

This class will cover service and maintenance techniques used to maintain OEM chassis, motor, drive train, steering, suspension, brakes, oxygen system, suction system and air conditioning/heating system. Class fulfills partial requirement for Fire Mechanic Level III state certification.

CFM-217

MANAGEMENT 1

Monday-Friday

40 hours

This class will provide an overview of basic supervisory, managerial, and leadership skills required in decision making, delegating, personnel motivation, communicating, time management, resource management, record keeping, team building, disciplinary functions and dealing with change and stress. Class fulfills partial education requirement for Fire Mechanic Level III state certification.

MECHANIC RE-CERTIFICATION

Beginning January 1, 2001, mechanic certifications issued by the California State Fire Marshals Office expire five years from the date of issuance. Those students needing to recertify specific levels can do so by writing in either Level I Re-Cert, Level II Re-Cert or Level III Re-Cert in the first choice selection box of the Student Registration form. Remember that you only have to re-certify to your highest level. These students will be given an individualized class schedule that will meet all of the continuing education requirements for the specific level requested.

RCFM-1

LEVEL I RE-CERTIFICATION

Monday-Friday

36 hours

This class provides review and update of operation, service and maintenance of pumps and accessories used in fire apparatus. The class fulfills re-certification requirements for Level I Fire Mechanic.

RCFM-2

LEVEL II RE-CERTIFICATION

Monday-Friday

36 hours

This class will review and update the theory, operation and maintenance of fire pumps and accessories, electrical systems and Allison transmissions currently being used in fire apparatus. The class fulfills re-certification requirements for Level II Fire Mechanic.

RCFM-3

LEVEL III RE-CERTIFICATION

Monday-Friday

36 hours

This class will review and update the theory, operation and maintenance of fire pumps and accessories, electrical systems, Allison transmission, aerial ladders and platforms and ambulances currently being used in the fire service and emergency response agencies. Also included will be a review of basic supervisory, management and leadership skills. This class fulfills re-certification requirements for Level III Fire Mechanic.

FF-501 [KNOWING YOUR APPARATUS](#)

Monday-Friday

32 hours

This class will provide a detailed review of the primary operating systems of fire apparatus and troubleshooting techniques the operator can perform. The class will review the special requirements, needs and issues of fire service equipment and enhance the student's ability to provide more detailed information to the fire service mechanic. It will also cover the role of the apparatus operator dealing with emergency response equipment and the goal to be operationally ready at all times.

FF-503 [KNOWING YOUR AERIAL](#)

Monday-Tuesday

16 hours

This class covers firefighter/operator maintenance and operating requirements for aerial apparatus used in the fire service. Topics may include operation, operator maintenance and safety considerations.

FF-504 [GROUND LADDER TESTING](#)

Friday

4 hours

This course covers fire service ground ladder maintenance, inspections and testing as required by NFPA 1932 *Standard on Use, Maintenance, and Service Testing of In-Service Fire Department Ground Ladders*. This course will provide students with the means to determine if in-service ground ladders meet the standard for continued service as well as proper maintenance.

FM-103 [ELECTRICAL CHARGING & STARTING SYSTEMS](#)

Wednesday–Thursday

12 hours

This class will cover both testing and service techniques used to maintain charging and starting systems and components.

FM-109 [BASIC AUTOMOTIVE & TRUCK ELECTRONICS](#)

Monday-Friday

32 hours

This is the first of two courses in the electrical certification series. This course is designed for the student with little or no knowledge of electrical systems as they relate to automotive and truck applications and is ***required*** for students wishing to take the electrical certification class and state examination. This course will cover electrical theory, magnetism, semiconductors, transistors, relays, circuit theory, circuit building and testing, multimeter basics, batteries, charging systems, starting systems and wiring diagrams and schematics.

Required Materials: Digital Volt Ohm meter (DVOM) and calculator

FM-110 [BRAKE SYSTEMS & ABS](#)

Tuesday–Wednesday

16 hours

This class will cover maintenance requirements for typical hydraulic, air brakes and ABS systems found on fire apparatus. Individual components will be discussed along with typical service requirements for each unit. The class will include troubleshooting and analyzing failures.

FM-111B [FIRE SERVICE VALVES ~ ELKHART](#)

Friday

4 hours

This class will cover the application and service requirements for Elkhart fire service valves. The student will be taught the specifications and techniques for overhauling and rebuilding these valves.

FM-112 [PUMP OPERATION AND TESTING](#)

Monday–Tuesday

16 hours

This class will cover the procedures used to perform various pump tests which are conducted at the draft pit including troubleshooting and analyzing test data. Demonstration and practice of actual pump test is included and will be held off site. Students are required to provide protective clothing.

FM-117 [APPARATUS SAFETY INSPECTIONS](#)

Monday

8 hours

This class will cover the latest standards and techniques used in apparatus safety and maintenance inspections on various emergency vehicles.

FM-126 [WHEELS AND TIRES](#)

Thursday

4 hours

This class will cover inspection, service, air pressure requirements, maintenance and the proper use of tires and wheels used on fire service vehicles.

FM-127 [HYDRAULICS & RESCUE TOOLS](#)

Tuesday

8 hours

This class will cover inspection, basic maintenance, service and repairs of hydraulically powered rescue tools as per industry standard and NFPA 1936.

FM-205 [INTERNATIONAL DIESEL SERVICE](#)

Wednesday-Thursday-Friday

16 hours

This class will cover maintenance and tune-up procedures with recommended methods of troubleshooting. It includes the various models and their design features used in typical fire apparatus applications.

FM-206 [ALLISON TRANSMISSION PREVENTATIVE MAINTENANCE](#)

Wednesday-Thursday

12 hours

This class will cover preventative maintenance programs and troubleshooting which is an important component of any service and maintenance program. Also covered will be the use of approved filters, fluids, and the fluid cooling systems in keeping with Allison warranty requirements.

FM-210**WATEROUS FIRE PUMPS**

Monday & Tuesday

16 hours

This class will include identification, repair and preventative maintenance of Waterous fire pumps and related accessories. It will include applications, service requirements and troubleshooting of various Waterous fire pumps, transmissions, transfer valves, relief valves, governors and priming devices.

FM-211**DARLEY FIRE PUMPS**

Monday & Tuesday

16 hours

This class will include identification, repair and preventative maintenance of Darley fire pumps and related accessories. It will include applications, service requirements and troubleshooting of various Darley fire pumps, transmissions, transfer valves, relief valves, governors and priming devices.

FM-212**HALE FIRE PUMPS**

Monday & Tuesday

16 hours

This class will include identification, repair and preventative maintenance of Hale fire pumps and related accessories. It will include applications, service requirements and troubleshooting of various Hale fire pumps, transmissions, transfer valves, relief valves, governors and priming devices.

FM-216**AIR BREATHING COMPRESSORS**

Wednesday

8 hours

This class will cover the theory, operation, and maintenance of air breathing compressors used in the fire service, both stationary and mobile.

FM-217**SECONDARY BRAKES & RETARDERS**

Thursday

4 hours

This class will cover descriptions of various secondary brakes as well as service requirements in the fire service.

FM-225**MAINTENANCE, SERVICE & REPAIR OF CAFS**

Monday

8 hours

This class will focus on the theory, maintenance and troubleshooting of CAF system components.

FM-229C**CATERPILLAR ENGINE TUNE-UP & TROUBLESHOOTING**

Monday-Friday

32 hours

This class will cover the theory and operation of Caterpillar mechanical fuel-injection systems, Caterpillar electronic fuel-injection systems and Caterpillar HEUI fuel system. The operations and troubleshooting of the various systems including fuel, emission control, engine control and tune-up will be explored.

FM-230 [GENERATOR SERVICE & MAINTENANCE](#)

Tuesday

8 hours

This class will explain the service and maintenance requirements for generators used in fire service applications including identification of generator types, their service and maintenance requirements, procedures and intervals of service.

FM-231 [WARNING EQUIPMENT SERVICE & MAINTENANCE](#)

Wednesday

8 hours

This class will cover the servicing and maintenance procedures for halogen, strobes, and LED lighting systems plus mechanical and electronic audible warning devices.

FM-303 [ELECTRICAL MULTIPLEXING SYSTEMS](#)

Wednesday-Thursday-Friday

16 hours

This class will cover new and anticipated design changes and service requirements, differences in current production electrical units compared to previous models, and experimental changes which are expected in the future including electronics and microprocessors. * This course will cover the multiplexing system used on **Pierce** Fire Apparatus only. ***Per Pierce Manufacturing, all students requesting this multiplexing class are required to have a multiplexed fire apparatus within their agencies fleet. Pierce will require students to provide the agency name and a job number of at least one Pierce multiplexed vehicle at the start of the class.***

FM-308 [AERIAL SERVICE & MAINTENANCE](#)

Wednesday-Thursday-Friday

16 hours

This class will cover the factory service and maintenance requirements specific to aerial apparatus used in the fire service. Topics will include hydraulic system, electrical system, structural repair and testing requirements.

FM-311 [DIESEL PARTICULATE FILTERS](#)

Tuesday

8 hours

This class will provide a detailed overview of the handling and maintenance of the EPA required DPF systems used currently on emission controlled diesel engines. It will cover service and maintenance requirements along with diagnosing possible issues with the systems and controls.

FM-324

APPARATUS REFURBISHING

Wednesday

8 hours

This class will cover minimal requirements and guidelines for fire apparatus refurbishing as per industry standards and NFPA 1912 including defining the levels of refurbishment being done by departments, municipal maintenance facilities, private contractors and apparatus manufacturers.

FM-331

LAWS, REGULATIONS & STANDARDS

Friday

4 hours

This class will cover Federal Motor Vehicle Safety Standards, NFPA Standards and “Out-of-Service” criteria, acquainting students with the principles and theories associated with maintenance required for fire apparatus and equipment. Recent case studies will be reviewed in the classroom setting.

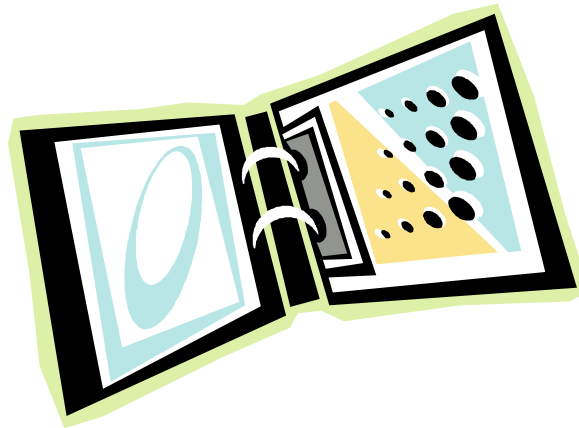
FM-332

DIESEL EMISSIONS

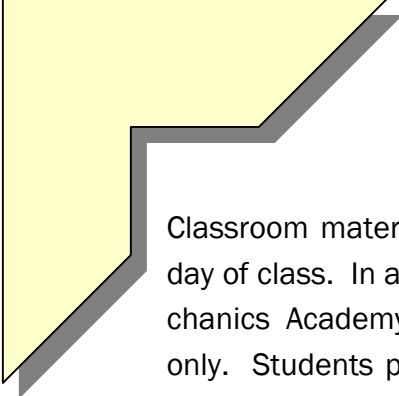
Thursday

4 hours

This class will help the student understand the opacity requirements of diesel engines as required by state and federal agencies.



**DON'T FORGET TO BRING ANY
CLASSROOM MATERIALS YOU
MIGHT NEED !**



Classroom materials will be distributed to each student on the first day of class. In addition to handout materials, the California Fire Mechanics Academy will provide actual textbooks for classroom use only. Students previously enrolled in Electrical Systems 2A had expressed a desire to have a personal copy of the textbook to have in advance of the class or to keep as reference material. The text used for Electrical Systems 2A is:

***Today's Technician: Medium/Heavy Duty Truck Electricity
& Electronics***

Sulev Oun, Author



REGISTRATION PROCEDURES

All Academy students must check-in at the Lions Gate Hotel beginning Sunday afternoon, April 1, 2012 from 2:00 ~ 6:00 pm. CFMA staff will be there to assist with any questions you might have and distribute classroom materials and instructions at that time.

Please note that students arriving after 6:00 pm on Sunday or attending only a portion of academy week may check in at the CFMA Administrative Office in the Sacramento Regional Public Safety Training Center, Room 103 after 7:00 am each morning.

1. Read through the [Class Schedule](#) and [Course Descriptions](#) carefully and identify those classes that best accommodate your specific needs.
2. Complete the [CFMA Student Registration](#) form. Make sure that the class selection portion is completely filled in. By providing a first, second and third choice, we will be better able to accommodate your wishes.
3. Complete the [CFMA Invoice Information](#) form. Be sure to include the \$80 state class fee if registering for a certification class (course number begins "CFM"). Textbooks are included in the registration fee and will be handed out in class to registered students.
4. Mail or fax both completed forms along with payment or purchase order to Diane at the CFMA administrative office. No student will be registered until all the paperwork is complete. Please—no telephone registration!

Remember, classes fill quickly so register early!

INVOICE INFORMATION

PAYING STUDENT OR AGENCY: _____

BILLING ADDRESS: _____
No & Street City State Zip

(Address Must Match Credit Card Billing Address)

AGENCY TELEPHONE: _____ SUPERVISOR: _____

STUDENT(S) NAME:

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

QTY	DESCRIPTION	UNIT PRICE	TOTAL
	Academy Registration Fee <i>Weekly Rate</i>	\$ 450.00	
	Academy Registration Fee <i>Daily Rate</i>	\$ 150.00	
	State Certification Class Fee <i>(All classes beginning with "CFM")</i>	\$ 80.00	
	Late Registration Fee <i>(after 2/15/12)</i>	\$ 50.00	
	Student Substitution Fee	\$ 50.00	
	Additional Banquet Ticket	\$ 40.00	
	TOTAL AMOUNT DUE:		

METHOD OF PAYMENT

Check # _____

P.O. # _____ (copy attached)

Credit Card # _____

Visa Master Card

Expiration: _____ Code #: _____

Authorized Signature: _____

Please Print Name: _____

MAKE CHECK/PURCHASE ORDER
PAYABLE TO

California Fire Mechanics Academy, Inc.
P.O. Box 678
No. Highlands, CA 95660

Telephone: 916.727.7019
Fax: 916.727.2324
Tax ID # 68-0299669

Credit Card Receipt will be sent to the address above unless otherwise specified or to

The Academy, its directors, officers, agents, employees or representatives (hereafter, collectively, the “Academy”) agree to indemnify and hold Student harmless from and against any and all damage Student may suffer due to the acts or actions of the Academy. Student hereby agrees to indemnify and hold the California Fire Mechanics Academy, Inc., the Sacramento Metropolitan Fire District, and any and all other entities associated with the Academy harmless from and against any and all liability or damage they may suffer as a result of claims, demands, costs (including attorney fees, court or arbitration costs and expenses, or judgments against the Academy) arising out of Student’s acts or actions in connection with the application, registration, attendance, participation, transportation, hotel accommodations, or otherwise. A claim made under this section requires written notice by the party claiming indemnity.





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