

Certification Commission Inc

Program Booklet







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Emergency Vehicle Technician Certification Commission, Inc.

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WHY A CERTIFICATION PROGRAM?

The emergency service has always ensured that response and rescue personnel are trained and certified to appropriate levels based on "accepted standards," such as the NFPA standards for firefighters and fire officers. A great deal of emphasis is placed on maintaining the condition of the apparatus and equipment used by these personnel, but what about the people who maintain and repair the vehicles and equipment? What level of training have they received to keep a sophisticated piece of machinery in proper operating order? Unfortunately, many emergency vehicle technicians are often neglected in emergency response agencies, and in many cases they are part of the cadre of technicians who work on many different types of vehicles other than emergency vehicles. The emergency vehicle technicians' need for training, education, and recognition are the same as it is for emergency response and rescue personnel. However, these needs are often unfulfilled. The EVT Certification Commission, Inc. was created to help meet those needs.

WHAT IS THE EVT CERTIFICATION COMMISSION?

The Emergency Vehicle Technician Certification Commission, Inc. (EVT) is a non-profit corporation dedicated to improving the quality of emergency vehicle service and repair throughout the United States and Canada. EVT is governed by a Board of Directors that represents emergency response agencies, emergency vehicle maintenance service associations, and the educational community. Currently, there are over 7,000 EVT Certified Technicians.

EVT began as The Fire Apparatus Mechanics Certification Program, sponsored by the International Association of Fire Chiefs (IAFC). In 1988, the IAFC introduced this certification program in an effort to elevate the standards of emergency vehicle maintenance and the personnel who perform the work. In addition, the IAFC sought to provide technicians recognition for the education, training, and experience they have in the field of service and repair of emergency vehicles. While the IAFC no longer directly oversees the EVT Certification Program, the IAFC continues to support the continued development and operation of the EVT Certification Program.

The primary function of EVT is to test and certify emergency vehicle technicians. EVT also encourages the development of effective training programs which address the training and educational needs of the emergency vehicle technician.

WHAT BENEFITS ARE THERE TO BEING CERTIFIED?

The benefits of being certified are personal and professional. Being certified as an Emergency Vehicle Technician shows departments, governing boards and apparatus service center customers that the technician has proven himself knowledgeable in diagnosing and repairing emergency vehicle mechanical problems.

- ♦ Being certified can potentially mean better pay, increased job opportunity and improved status with the technician's employer.
- ♦ Certification can increase respect, recognition and credibility in the industry and profession.
- ♦ Technicians will have a nationally recognized certification that may allow both lateral as well as upward movement in the fire apparatus and/or ambulance maintenance field.
- ♦ The servicing of emergency fire apparatus and ambulances by certified technicians will provide more reliable equipment, thus enhancing the safety of the public and emergency personnel.
- ♦ An emergency response agency or vehicle service center employing certified EVT personnel will benefit by having knowledgeable technicians who are trained to work on emergency vehicles. This will influence the organization's reputation and customer assurance that quality work will be performed.

WHO IS ELIGIBLE?

Anyone may register to take the examination. There are no prerequisites to register. The examinations have been constructed to identify those who possess the knowledge and skills needed to perform their job. The EVT Certification Program is structured for individuals to utilize independent study.

WHEN & WHERE ARE THE EVT EXAMS ADMINISTERED?

EVT exams are offered twice a year at sites across the country. In addition, many mechanics' seminars, workshops and schools which offer training in various fields of maintenance have made testing sites available during their activities. The dates, times and locations of these testing sites can be found on the test site list or by calling the EVT office at 847-426-4075 or on the **web site at evtcc.org in the "Test Dates and Sites" section.**

WHAT ARE THE EVT EXAMS LIKE?

Each regular exam has 85 to 110 multiple-choice questions and each re-certification exam has 25 -35 multiple-choice questions. The questions are written by a panel of technical experts from the emergency apparatus and ambulance industry, certified emergency vehicle technicians, component systems experts and vocational educators.

Reference material lists and study objectives, on which the examinations are based, are found later in this pamphlet. These objectives should be used as a basis for preparing to take the EVT examinations. Each individual is encouraged to obtain the reference materials listed and review the objectives to insure that he or she is ready to take an EVT exam.

HOW TO REGISTER FOR EVT EXAMINATIONS

You can register online at our web site, www.evtcc.org or complete the EVT Examination Registration Form on page 9 of this booklet, include payment and mail or fax to the EVT Certification Commission. The registration must be received at the EVT office at least 21 days prior to the scheduled exam date. There will be No "Walk-In" registration. Confirmation of exam registration will be mailed to the technician within a week after it is received by the EVT office.

Number of tests allowed. Four hours are allotted for each testing date. A time limit of two hours is allowed for each regular exam and 40 minutes are allowed for each re-certification exam. Any combination of regular and/or re-certification exams cannot exceed four hours. For instance, two regular exams = four hours, or six re-certification exams = four hours, or a combination of one regular exam and three re-certification exams = four hours.

IS THERE A RE-CERTIFICATION REQUIREMENT?

YES! Vehicle technology and service techniques are changing rapidly. Technicians must keep up-to-date with modern repair practices and standards. This program provides an incentive for emergency vehicle technicians to keep their knowledge and skills current and assures credible proof of one's ability. Re-certification is an integral part of the Emergency Vehicle Technician Certification Program. The EVT Certification Commission will require the applicant to pass the current EVT re-certification examination every five (5) years.

WHO WILL KNOW THE RESULTS OF THE EXAM?

A letter will be sent to the technician with exam results. If an exam is not passed, a report identifying areas of knowledge will be sent. EVT reserves the right to affirm or dis-affirm to its constituents and the public whether the technician does or does not hold EVT certification and in what specialty. EVT will not release test scores to any other party in a manner that the scores can be identified with a specific technician, unless a written request is received from that technician

Registration for an EVT exam signifies to the EVT Commission and others that the participant has an interest in elevating his knowledge of maintenance and repair of emergency response vehicles. One aspect of EVT's mission is to encourage and assist in the development of maintenance training programs. Accordingly, EVT will use these records to communicate with the technician, or to facilitate communications by others about education, training, state associations, and award programs judged to be of potential benefit to the technician.

TIPS FOR PREPARING FOR AN EVT EXAM

Register Early Allow time to obtain reference material, some of the reference material may take several weeks to obtain.

Study This is a learning experience. The purpose of this program is to elevate and improve the standards of emergency response vehicle technicians. We recommend you briefly preview the outline of the learning objectives to become familiar with the topics covered. Then, read each objective carefully. Highlight or underline objectives not known or not understood. Look up the items you have highlighted in recommended reference material and refer to other shop manuals to refresh knowledge of proper techniques. Some of the objectives may be hands on/accepted practice type items.

How to answer questions

Read each question completely, do not skim or jump to conclusions. Read through **all** the answers, **then** choose the answer that is most correct. Do not leave any question unanswered. A **blank** answer is counted as a **wrong** answer.

HOW DOES THE EVT CERTIFICATION PROGRAM WORK?

There are two options for technicians to become certified.

Option 1:

Technicians may choose to take only EVT exams and become certified in the individual test areas. The technician will receive an EVT Test Certificate stating the area(s) in which he/she is certified. When a technician passes his first exam he will receive an "EVT Certified" patch.

Option 2:

Technicians may choose to obtain the highest EVT Certification by taking a combination of the EVT exams and the ASE (National Institute for Automotive Service Excellence) exams, or the equivalent Canadian Provincial License. Level Certification will be granted to the technician who successfully completes these requirements. Technicians have the option of obtaining **Level I, II, or Master EVT Technician** in the Fire Apparatus, Ambulance Track, and ARFF Vehicle Track.

HOW TO BECOME A LEVEL I, II, OR MASTER EVT CERTIFIED TECHNICIAN

Once all of the required EVT and ASE exams for Level I, II, or Master have been taken, the technician will need to complete the "EVT Certification Level Application Form" and mail with copies of the required ASE or equivalent Canadian Provincial License to the EVT Certification office. ASE or EVT exams may be taken in any order; however, the technician must apply for each level in sequence. For example, Level I requirements would have to be completed before or concurrent with applying for Level II, or Master.

THE ASE PROGRAM - ASE's primary function is to test and certify automobile technicians and truck technicians. The ASE program consists of a series of written tests given biannually. These tests measure diagnostic and repair knowledge in various technical areas. When a technician passes one or more tests, and has completed two years of related work experience, he/she receives documentation for those areas of certification. ASE offers certification tests in the Spring and Fall each year. Tests are given at locations across the country. For further information regarding the ASE tests, contact: National Institute for Automotive Service Excellence, 1-877-273-8324

Canadian Equivalency - Canada has specific requirements for mechanics. Canadian applicants may substitute copies of a equivalent Provincial License in place of ASE certification to meet the requirements for level certification.

EVT CERTIFICATION TRACKS

There are six EVT Certification Tracks

- Fire Apparatus Technician Track
- Ambulance Technician Track
- ARFF Vehicle Technician Track
- Law Enforcement Vehicle Technician Track
- Management Track
- Driver Operator Inspection

A description of these tracks can be found on the following pages.

FIRE APPARATUS TECHNICIAN CERTIFICATION TRACK

This track is for those technicians who service and maintain fire department pumpers, squads, aerial devices, tankers, wild land apparatus, etc. The exams cover design and performance standards, specialized systems and equipment, and accepted practices used in the service and maintenance of fire apparatus. Reference material lists to prepare for the EVT exams and an outline of the areas to study, "Learning Objectives", are available online at www.evtcc.org and are mailed at time of registration.

Driver Operator Inspection Exams

DO1 Driver Operator 1 Inspection
DO2 Driver Operator 2 Inspection- not available at this time

Fire Apparatus Technician Exams

Learning Objectives and Reference Materials list for each exam can be downloaded at www.evtcc.org, then click on "exams and preparation", then scroll down list to the exam(s) you are interested in and print out the page.

- F-1 Inspection, Maintenance, & Testing of Fire Apparatus
- F-2 Design & Performance Standards of Fire Apparatus
- F-3 Fire Pumps and Accessories
- F-4 Fire Apparatus Electrical Systems
- F-5 Aerial Fire Apparatus
- F-6 Allison Automatic Transmissions
- *FA-4 Advanced Electrical Systems Pre-requisite requirement of F-4 or E-2
- *F-7 Foam Systems
- *F-8 Hydraulic Systems
- *GL Ground Ladder Testing

*Please note that FA-4, F-7, F-8, GL are not required for EVT Level Certification as described below

Fire Apparatus Technician Level Certification Requirements Chart

Level I

ASE Exams: EVT Exams:

T-4 Heavy-Duty Truck, Brakes F-1 Inspection, Maintenance & Testing of Fire Apparatus

T-5 Heavy-Duty Truck, Suspension and Steering F-2 Design & Performance of Fire Apparatus

Level II

ASE Exams: EVT Exams:

T-2 Heavy-Duty Truck, Diesel Engines F-3 Fire Pumps and Accessories

T-3 Heavy-Duty Truck, Drive Train F-4 Electrical Systems

T-6 Heavy-Duty Truck, Electrical Systems

Master Level III

ASE Exams: EVT Exams:

T-1 Heavy-Duty Truck, Gasoline Engines F-5 Aerial Fire Apparatus

T-7, Heating and Air-Conditioning F-6 Allison Automatic Transmissions

AMBULANCE TECHNICIAN CERTIFICATION TRACK

This track recognizes that some technicians work only on ambulances. The exams cover the design and performance standards, the specialized systems and equipment, and the accepted practices used in the service and maintenance of ambulances. Reference material lists to prepare for the EVT exams and an outline of the areas to study, "Learning Objectives", are available online at www.evtcc.org and are mailed at time of registration.

Ambulance Technician Exams

Learning Objectives and Reference Materials list for each exam can be downloaded at www.evtcc.org, then click on "exams and preparation", then scroll down list to the exam(s) you are interested in and print out the page.

- E-0 Inspection, Maintenance, & Testing of Ambulances
- E-1 Design & Performance Standards
- E-2 Ambulance Electrical Systems
- E-3 Ambulance Heating, Air-Conditioning, and Ventilation Systems
- E-4 Ambulance Cab, Chassis, and Powertrain

Ambulance Technician Level Requirements Chart

Level I

ASE Exams:

A-4 Automobile, Suspension and Steering

A-5 Automobile, Brakes

EVT Exams:

E-0 Inspection, Maintenance, & Testing of Ambulances

E-1 Design and Performance of Ambulances

Level II

ASE Exams:

A-9 Automobile, Diesel Engines T-3, Heavy-Duty Drive Train

T-4 Heavy-Duty Truck, Brakes

EVT Exams:

E-2 Ambulance Electrical Systems

E-3 Ambulance Heating, Air-Conditioning, & Ventilation

Master Level III

ASE Exams:

T-1 Heavy-Duty Truck, Gasoline Engine T-2 Heavy-Duty Truck, Diesel Engines

T-5 Heavy-Duty Truck, Suspension and Steering

EVT Exams:

E-4 Ambulance Cab, Chassis and Powertrain

AIRPORT RESCUE AND FIRE-FIGHTING TECHNICIAN LEVEL CERTIFICATION TRACK

This track program recognizes technicians who work on airport rescue and fire-fighting vehicles. The exams cover the design and performance standard and preventive maintenance, chassis and vehicle performance, and the extinguishment systems of ARFF vehicles. Reference material lists to prepare for the EVT exams are shown in the description of each exam. An outline of the areas to study, "Learning Objectives", are available online at www.evtcc.org and are mailed at time of registration.

ARFF Technician Exams

Learning Objectives and Reference Materials list for each exam can be downloaded at www.evtcc.org, then click on "exams and preparation", then scroll down list to the exam(s) you are interested in and print out the page.

- A-1 Design & Performance Standards & Preventive Maintenance of Aircraft Rescue & Fire-Fighting Vehicles
- A-2 Chassis and Vehicle Components of Aircraft Rescue and Fire-Fighting Vehicles
- A-3 Extinguishment Systems of Aircraft Rescue and Fire-Fighting Vehicles

AIRPORT RESCUE AND FIRE-FIGHTING TECHNICIAN LEVEL REQUIREMENTS

Level I

ASE Exams: EVT Exams:

T-2 Heavy-Duty Truck, Diesel Engine A-1 Design and Performance of ARFF Vehicles

T-4 Heavy-Duty Truck, Brakes F-1 Inspection, Maintenance, & Testing of Fire Apparatus

T-6 Heavy-Duty Truck, Electrical/Electronic Systems

T-5 Heavy-Duty Truck, Suspension/Steering

Level II

ASE Exams: EVT Exams:

T-3 Heavy-Duty Truck, Drive Train

A-2 Chassis & Vehicle Components of ARFF Vehicles

T-7 Heavy-Duty Truck, HVAC F-4 Fire Apparatus Electrical Systems

Master Level III

ASE Exams: EVT Exams:

L-2 Electronic Diesel Engine Diagnosis Specialist

A-3 Water/Foam and Ancillary Extinguishment Systems

LAW ENFORCEMENT VEHICLE TECHNICIAN LEVEL CERTIFICATION TRACK

The Law Enforcement Vehicle Technician track program recognizes that some technicians work only on law enforcement vehicles. The exam covers the design and performance standards, installation of the specialized systems and equipment, and the accepted practices used in the service and maintenance of Law Enforcement Vehicles. A reference material list to prepare for the EVT exam is shown in the description of the exam. An outline of the areas to study, "Learning Objectives", are available online at www.evtcc.org and are mailed at time of registration.

Law Enforcement Vehicle Technician Exam

L-1 Law Enforcement Vehicle Installation Technician

Learning Objectives and Reference Materials list for each exam can be downloaded at www.evtcc.org, then click on "exams and preparation", then scroll down list to the exam(s) you are interested in and print out the page.

MANAGEMENT CERTIFICATION TRACK

A reference material list to prepare for the EVT exam is shown in the description of the exam. An outline of the areas to study, "Learning Objectives", are available online at www.evtcc.org and are mailed at time of registration.

Management Exams

Learning Objectives and Reference Materials list for each exam can be downloaded at www.evtcc.org, then click on "exams and preparation", then scroll down list to the exam(s) you are interested in and print out the page.

M-1 Level 1 Supervisor Exam

M-2 Level 2 Supervisor Exam

EVT Certification Commission, Inc. encourages organizations that promote **training** for the emergency vehicle technician. Listed below are organizations that are of interest to the emergency response vehicle technician. Many of the seminars and shows provide the opportunity to sit for EVT Certification exams. Check the test site list for dates and times or visit the EVT web site at www.evtcc.org

Hale Pumps Ocala, FL and Conshohocken, PA EVT exam is offered following the training, pre-registration required www.haleproducts.com

Waterous South St. Paul, MN EVT exam is offered for those attending the training. Preregistration required. Visit www.waterousco.com

Fox Valley Technical College Preparation classes for EVT Certification exams: The EVT exam will be offered following the training . Preregistration for the test required. www.fvtc.edu

Emergency Vehicle Technical Support, Inc. Ocala, FL is now offering ZOOM classes and classroom training EVTCC prep classes for F1-F6, E0-E4, and L1, for class types and dates, contact Kenny Stevens at 352-595-3350 or go to http://www.evttraining.net/

The Heartland Emergency Apparatus Technicians (HEAT) Association.

www.heatevt.com or email Boyd at bpowers@sedgwick.gov

Fire Department Instructor's Conference www.fdic.com

Fire Department Safety Officer's Association Apparatus Maintenance Symposium (FDSOA) www.fdsoa.org

Florida Fire Chiefs - Florida Association of Emergency Vehicle Technician's 386-676-2744 www.ffca.org

ASE www.ase.com
Arizona Fire Mechanics www.azfiremechanics.com
IAFC Emergency Vehicle Mgmt Section www.iafc.com
ASE Certification www.ase.com
California Fire Mechanics www.cafiremech.com
Northern Cal Fire Mechanics www.ncfma.org
Colorado Fire Mechanics www.coevta.org
Darley Pump www.darley.com
EVT Certification Commission www.evtcc.org
Emergency One www.e-one.com
Emergency Vehicle Tech Support www.evttraining.net
Firehouse Expo www.firehouseexpo.com
FireRescue www.iafc.org/fri
Florida Association of EVTs www.faevt.org
Hale Products www.haleproducts.com
Heartland EVTs www.heatevt.com
Illinois Fire Mechanics www.ifama.net
Long Island EVT'swww.lievt.org
New England FAMA www.nefama.org
Ohio Association of EVTs www.oaevt.org
Oklahoma Association www.okevt.org
Oregon Association of EVTs www.ofaema.org
Spartan Chassis http://spartaner.com
Texas Association of EVT's www.taevt.org
Wisconsin Association of EVT's www.waevt.org
Washington State Association www.washingtonfirechiefs.com
Waterous Company www.waterousco.com

Please note that while we encourage you to explore this resource, but are not connected to them, .

For test dates and sites visit the EVTCC web site at www.evtcc.org

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REGISTER ON-LINE at www.evtcc.org

Questions? call 847-426-4075 or email evtcert@evtcc.org

INVOICE EVT Exam Registration Form Have you ever taken an EVT Certification exam before? Yes |__| No |__| XXX-XX -Work Phone Last 4 Digits of Soc Sec # Mobile Last Name First Name MI Home Address or P.O. Box Number City Zip or Postal Code State Employer Name: Confirmation Letter will be emailed Date of Birth | | | | | | Years of education: DATE OF EXAM: 21 Day Advance Registration Required for mail or fax, 16 days for online. **TEST SITE #** CITY: STATE: see list of test dates and test sites Blacken the square for exam- a maximum of 2 regular exams or 6 re-certification exams or a combo of 1 reg & 3 recerts may be taken. *Note: Re-certification exams are for technicians whose certification is expiring. Recerts can be taken up to two years after a certification expires. EVT Certification reserves the right to affirm to interested parties the areas in Re-certification* Regular which a technician is EVT Certified. \$75.00 \$50.00 Fire Apparatus Exams F1 Maintenance, Inspection, & Testing Fees: Regular exams: X \$75.00 = **Design & Performance** F3 Fire Pumps & Accessories Re-certification exams: X \$50.00 = \$ Please note that if you register online at www.evtcc.org, the price will be F4 **Electrical Systems** discounted to \$70 for regular and \$45 for recertificaton FA4 Advanced Electrical Systems to take the FA-4 you must have F4 or E2 AMOUNT Total Fees = F5 F5 Aerial Fire Apparatus Register ON-LINE at www.evtcc.org to **Allison Automatic Transmission** F6 receive a 10% discount! **Foam Systems** F7 You will receive a Confirmation Letter and Reference/Objective list within three business days by email. You must have the confirmation letter to be admitted to the exam, along with PICTURE ID. F8 **Hydraulic Systems** GL GL Ground Ladder Testing Method of Payment: | | Credit/Debit Card | | Money Order | | | Check DO1 **DO1 Driver Operator Inspection** Credit Card # Ambulance Exams E0 E0 Maintenance, Inspection & Testing E1 **Design & Performance** Security Code Expiration Date E2 **Electrical Systems E3** E3 HVAC Name on Credit Card- if different from test taker's name E4 Cab, Chassis & Powertrain E4 Airport Rescue & Firefighting Vehicle Exams Billing address-if different from test takers **Design & Performance A1** Signature of cardholder: A2 **Chassis & Components** Email for transaction receipt: **A3 Extinguishment Systems** Mail or fax this form and payment to: L1 Law Enforcement Vehicle Installation **EVT** Certification PO Box 894 Dundee, IL 60118

02/24

M1

M2

Management Level I Supervisor

Management Level II Supervisor

to take the M2 you must be certified in M1