

# Emergency Vehicle Technician 1

(NFPA Emergency Vehicle Technician I)

---

## Instructor Task Book (2020)



California Department of Forestry and Fire Protection  
Office of the State Fire Marshal  
State Fire Training

## Purpose and Process

### Purpose

The State Fire Training Instructor: Emergency Vehicle Technician 1 instructor trainee task book is a performance-based document. It lists the minimum Job Performance, Certification, Education, and Position requirements a candidate must meet to teach Emergency Vehicle Technician 1 courses.

### Initiation and Completion Process

#### Candidate Responsibilities

The candidate is the individual pursuing instructor registration.

The candidate shall:

1. Complete the “Candidate” and “Task Book Initiation Requirements” sections on the Task Book Initiation page.
  - Please print.
2. Complete a block on the Signature Verification page with an original wet-ink signature.
3. Complete all Experience requirements.
4. Complete all Position requirements.
5. Obtain the registered instructor’s signature as approval to open the task book using the “Task Book Initiation Approval” section on the Task Book Initiation page.
  - A candidate may not obtain evaluation signatures for any job performance requirements completed prior to the initiation approval date.
6. Complete all Job Performance Requirements.
  - Ensure that an evaluator initials, signs, and dates each task to verify completion.
7. Sign and date the “Candidate” verification section on the Review and Approval page with an original wet-ink signature.
8. Obtain his or fire chief’s original wet-ink signature on the “Candidate’s Fire Chief” verification section on the Review and Approval page.
9. Create and retain a physical or scanned digital copy of the complete task book.
10. Submit the completed task book and any supporting documentation to State Fire Training when registering to instruct Emergency Vehicle Technician 1.

It is the candidate’s responsibility to routinely check the State Fire Training website for updates and addendums to open task books. When State Fire Training issues an update or addendum to an open task book, that update, or addendum is required for task book completion.

A candidate should not submit a task book until he or she has completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

### **Evaluator Responsibilities**

An evaluator is any individual who verifies that the candidate can satisfactorily execute a job performance requirement.

A qualified evaluator is a State Fire Training Registered Instructor for Emergency Vehicle Technician or approved Vendor Expert Instructor authorized by the Instructor of Record.

An instructor task book may have more than one evaluator.

All evaluators shall:

1. Complete a block on the Signature Verification page with an original wet-ink signature.
2. Review and understand the candidate's instructor task book requirements and responsibilities.
3. Verify the candidate's successful completion of one or more job performance requirements through observation or review.
  - A candidate may not obtain evaluation signatures for any job performance requirements completed prior to the initiation approval date.
  - Sign all appropriate lines in the instructor task book with an original wet-ink signature or approved digital signature (e.g. DocuSign or Adobe Sign; a scanned copy of a signature is not acceptable) to record demonstrated performance of tasks.

### **Registered Instructor / Instructor of Record Responsibilities**

The State Fire Training Registered of the Emergency Vehicle Technician 1 courses is the individual who reviews and confirms the completion of a candidate's task book initiation requirements.

The registered instructor shall:

1. Review and understand the candidate's instructor task book requirements and responsibilities.
2. Verify that the candidate has met all requirements and prerequisites prior to initiating the candidate's task book.
3. Open the candidate's task book by signing the "Task Book Initiation Approval" section on the Task Book Initiation page with a wet-ink signature.

## Submission and Review Process

A candidate should not submit a task book until he or she has completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

Note: For the Emergency Vehicle Technician 1 Instructor Task Book, a candidate only has to complete the JPRs for the course they are seeking to teach.

Submit the completed task book and any supporting documentation to State Fire Training.

Office of the State Fire Marshal  
State Fire Training  
Attn: Instructor Registration  
2251 Harvard Street, Suite 400  
Sacramento, CA 95815

State Fire Training reviews all submitted task books.

If the task book is complete, State Fire Training will authorize the task book and retain a digital copy of the authorized task book in the candidate's career file.

If the task book is incomplete, State Fire Training will return the task book with a notification indicating what needs to be completed prior to resubmission.

Completion of this instructor task book is one step in the instructor registration process. Please refer to the *State Fire Training Procedures Manual* for the complete list of qualifications required to teach Emergency Vehicle Technician 1 courses.

## Task Book Initiation

Each JPR shall be conducted, reviewed, and validated after the candidate initiates the task book.

This task book must be completed within three years of initiation.

### Candidate

Name: \_\_\_\_\_

SFT ID Number: \_\_\_\_\_

Fire Agency: \_\_\_\_\_

### Task Book Initiation Requirements

The following requirements must be completed prior to opening this task book.

<b>Certification</b>	<b>Complete</b>
Emergency Vehicle Technician 1	<input type="checkbox"/>
Instructor II, or Current Registered Instructor with State Fire Training	<input type="checkbox"/>

<b>Education</b>	<b>Complete</b>
Emergency Vehicle Technician 1A: Emergency Vehicle Systems: Chassis, Cab, Body, Tank and Accessories	<input type="checkbox"/>
Emergency Vehicle Technician 1B: Electrical Systems A; or Preventative Maintenance (CFMA) and Knowing Your Fire Apparatus (CFMA)	<input type="checkbox"/>
Emergency Vehicle Technician 1C: Pumps and Accessories; or Fire Mechanic I: Fire Pumps and Accessories	<input type="checkbox"/>
Gasoline Engines [T1] (ASE)	<input type="checkbox"/>
Diesel Engines [T2] (ASE)	<input type="checkbox"/>
Drive Train [T3] (ASE)	<input type="checkbox"/>
Brakes [T4] (ASE)	<input type="checkbox"/>
Suspension and Steering [T5] (ASE)	<input type="checkbox"/>
Preventative Maintenance Inspections [T8] (ASE)	<input type="checkbox"/>
CFR 396.25: Brake Inspector Qualification (DOT)	<input type="checkbox"/>

## Task Book Initiation Approval

SFT Registered Instructor / Instructor of Record: \_\_\_\_\_  
Printed Name

I, the undersigned, am the person authorized to verify the candidate's task book requirements and to initiate this task book in partial fulfillment of the requirements to teach Emergency Vehicle Technician 1. I hereby certify under penalty of perjury under the laws of the State of California, that the completion of all requirements to open the task book documented herein are true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

\_\_\_\_\_  
SFT Registered Instructor / Instructor of Record Signature

\_\_\_\_\_  
Date

## Signature Verification

The following individuals are SFT registered Emergency Vehicle Technician 1 instructors and have the authority to verify portions of this instructor task book using the signature recorded below.

Please print except for the Signature line. Print and add additional signature pages as needed.

<b>Name:</b> _____	<b>Name:</b> _____
Job Title: _____	Job Title: _____
Organization: _____	Organization: _____
Signature: _____	Signature: _____
<b>Name:</b> _____	<b>Name:</b> _____
Job Title: _____	Job Title: _____
Organization: _____	Organization: _____
Signature: _____	Signature: _____
<b>Name:</b> _____	<b>Name:</b> _____
Job Title: _____	Job Title: _____
Organization: _____	Organization: _____
Signature: _____	Signature: _____
<b>Name:</b> _____	<b>Name:</b> _____
Job Title: _____	Job Title: _____
Organization: _____	Organization: _____
Signature: _____	Signature: _____
<b>Name:</b> _____	<b>Name:</b> _____
Job Title: _____	Job Title: _____
Organization: _____	Organization: _____
Signature: _____	Signature: _____

## Job Performance Requirements

This instructor task book includes the training objectives included in the Instructor Emergency Vehicle Technician course plan, which is based on NFPA 1071: Standard for Emergency Vehicle Technician Professional Qualifications (2020).

The candidate must complete each job performance requirement (JPR) in accordance with the standards of the authority having jurisdiction (AHJ) or the National Fire Protection Association (NFPA), whichever is more restrictive.

Each task must be performed twice.

- The two instances must occur during two different courses.
- The same evaluator can sign off on the same task twice.

Example of correct evaluation:

**Correct:** Task completed during two separate courses and may be evaluated by the same individuals.

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation	AAA123	6/10/2020	JAS
2 <sup>nd</sup> Evaluation	BBB123	10/10/2020	JAS

**Incorrect:** Task completed twice during one course but evaluated by two separate individuals

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation	AAA123	6/10/2020	JAS
2 <sup>nd</sup> Evaluation	AAA123	6/10/2020	CWJ

### Emergency Vehicle Technician 1A: Emergency Vehicle Systems: Chassis, Cab, Body, Tank and Accessories (2020)

1. Inspect the chassis systems, given an emergency response vehicle, standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, calibration, and diagnostic equipment, so that the structural integrity, the operation, and the condition of the auxiliary drive systems, axles, driveline, steering and suspension system, wheels, and tires are verified to be within manufacturer's specifications; the mounting security is verified; the chassis



components are operational and within manufacturer's specifications; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; inspections and services are documented; and any deficiencies found during the inspection and diagnostic check process are documented. (NFPA 4.2.1 / OSFM) (CTS 2-1)

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation			
2 <sup>nd</sup> Evaluation			

2. Perform maintenance on the chassis system, given an emergency response vehicle, manufacturer's specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), test and calibration equipment, and tools, so that deformed, broken, loose, worn, or missing parts are repaired or replaced; components are lubricated; fluid levels are maintained; calibrations and adjustment are performed; the system's operational condition is preserved or restored; activities are documented; and additional repair needs are reported. (NFPA 4.2.2) (CTS 2-2)

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation			
2 <sup>nd</sup> Evaluation			

3. Inspect chassis systems and components unique to emergency response vehicles, given an emergency response vehicle, standard operating procedures (SOPs), manufacturer's specifications, tools, test and calibration equipment, an assignment, and an inspection checklist, so that the structural integrity of the frame is verified; the operation and condition of independent suspension systems, all-wheel steering systems, secondary braking systems, and auxiliary cooling systems are verified to be within manufacturer's specifications; multiplexing, interface electronics, and load management systems are operationally checked; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspection and operational checks are documented. (NFPA 4.2.3) (CTS 2-3)

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation			
2 <sup>nd</sup> Evaluation			

4. Perform maintenance on chassis systems and components unique to emergency response vehicles, given an emergency response vehicle, manufacturer's specifications,

a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), test and calibration equipment, and tools and diagnostic equipment, so that deformed, broken, loose, worn, or missing parts are repaired or replaced; components are lubricated; fluid levels are maintained; calibrations and adjustment are performed; the system's operational condition is preserved or restored; activities are documented; and additional repair needs are reported. (NFPA 4.2.4) (CTS 2-4)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

5. Perform repairs on chassis systems and components, given an emergency response vehicle with an identified defective component(s), manufacturer's specifications, standard operating procedures (SOPs), an assignment or inspection report detailing a deficiency or deformation, and test and calibration equipment and tools, so that the identified defective component is diagnosed; deformed, broken, loose, worn, or missing parts of a chassis system or its components are repaired, rebuilt, or replaced to manufacturer's specifications; diagnostic checks are conducted and performance is verified; and the repairs are documented in accordance with the procedures of the jurisdiction. (NFPA 5.2.1 / OSFM) (CTS 2-5)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

6. Complete axle weight performance test on apparatus in accordance with NFPA 1911, given an emergency response vehicle, an applicable driving license (if required) and a commercial certified scale, so that the apparatus weight is determined to ensure that the weight on the vehicle does not exceed the gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) or gross combination weight rating (GCWR) as shown on the rating plate on the fire apparatus; and all testing is documented in accordance with the requirements of NFPA standards and the authority having jurisdiction. (NFPA 5.2.2) (CTS 2-6)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

7. Complete braking performance test on apparatus in accordance with NFPA 1911, given an emergency response vehicle, an applicable driving license (if required), and a

calibrated driving course so that the apparatus braking system performance is verified to ensure that the braking ability of the apparatus complies with the requirements of NFPA 1911 and federal and state regulations; and all testing is documented in accordance with the requirements of NFPA standards and the authority having jurisdiction. (NFPA 5.2.3) (CTS 2-7)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

8. Complete parking brake performance test on apparatus in accordance with NFPA 1911, given an emergency response vehicle, an applicable driving license (if required), and an appropriate road grade, so that the apparatus parking brake system performance is verified to ensure that the park braking ability of the apparatus complies with the requirements of NFPA 1911 and federal and state regulations; and all testing is documented in accordance with the procedures of NFPA standards and the authority having jurisdiction. (NFPA 5.2.4) (CTS 2-8)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

9. Complete road performance test on apparatus in accordance with NFPA 1911, given an emergency response vehicle, an applicable driving license (if required), and an approved driving course, so that apparatus system performance is verified to ensure that the drivability of the apparatus complies with requirements of NFPA 1911 and federal and state regulations; and all testing is documented in accordance with the requirements of NFPA standards and the authority having jurisdiction. (NFPA 5.2.5 / OSFM) (CTS 2-9)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

10. Inspect the cab, given an emergency response vehicle, applicable standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, so that the operation of the cab and components is verified; the condition of finishes, signs, labels, and paint is determined; the operation and condition of the doors, latches, trays, glass, and associated hardware are verified to be within manufacturer's specifications; climate control systems are tested for proper operation; all checklist items are inspected; defects and deficiencies,

including broken, loose, worn, or missing parts, are identified and reported; and inspection and checks are documented. (NFPA 4.3.1) (CTS 3-1)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

11. Perform maintenance on the cab, given an emergency response vehicle, manufacturer's specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), and tools and test equipment, so that the operational condition is preserved or restored; deformed, broken, loose, worn, or missing parts are repaired or replaced; components are lubricated; skid-resistant walking surfaces are intact; finishes and surfaces are clean and preserved; activities are documented; and additional repair needs are reported. (NFPA 4.3.2) (CTS 3-2)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

12. Inspect equipment mounting systems and mounting racks, brackets, and latches, given an emergency response vehicle and its assigned equipment, standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, so that the operation and condition of the mounting system and mounting racks are verified to be within manufacturer's specifications; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspection and operational checks are documented. (NFPA 4.3.3) (CTS 3-4)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

13. Perform maintenance on equipment mounting systems and mounting racks, brackets, and latches, given an emergency response vehicle, manufacturer's specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), and tools and test equipment, so that warning system components function; all hoses are tight; leaks are stopped; latches are aligned and adjusted to operational condition; fluids are checked and filled; lubricants are applied; any electrical connections are clean and tight; worn pads are replaced; deformed, broken, loose, worn, or missing parts are repaired or replaced; operational condition is preserved or

restored; activities are documented; and additional repair needs are reported. (NFPA 4.3.4 / OSFM) (CTS 3-5)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

14. Inspect the operation of the cab tilt system and components, given an emergency response vehicle with a cab tilt system, standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, so that the tilt mechanism is readied safe; the structural integrity is assessed; the operation and condition of all cab tilt components and warning systems are verified to be within manufacturer's specifications; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspections and checks are documented. (NFPA 4.3.5) (CTS 3-7)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

15. Inspect body, compartments, and storage areas, given an emergency response vehicle, standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, so that the operation and condition of the body, compartments, doors, latches, trays, and associated hardware are verified to be within manufacturer's specifications; the condition of finishes, signs, labels, and paint is determined and documented; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspection and checks are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 4.3.6) (CTS 3-9)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

16. Perform maintenance on body, compartments, and storage areas, given an emergency response vehicle, manufacturer's specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), and tools and test equipment, so that operational condition is preserved or restored; deformed, broken, loose, worn, or missing parts are repaired or replaced; components are

lubricated; skid-resistant walking surfaces are intact; finishes and surfaces are clean and preserved; activities are documented; and additional repair needs are reported. (NFPA 4.3.7) (CTS 3-10)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

17. Perform repairs on equipment-mounting systems and racks, given an emergency response vehicle, an assignment or inspection report detailing a deficiency or deformation, manufacturer's specifications, standard operating procedures (SOPs), and test and calibration equipment and tools, so that defective components are diagnosed; deformed, broken, loose, worn, or missing parts of an equipment-mounting system or rack are repaired, rebuilt, or replaced to manufacturer's specifications; diagnostic checks are conducted and performance is verified; and repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.3.1 / OSFM) (CTS 3-6)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

18. Perform repairs on cab tilt systems, given an emergency response vehicle with a cab tilt system, manufacturer's specifications, an assignment or inspection report detailing a deficiency or deformation, standard operating procedures (SOPs), and test and calibration equipment and tools, so that defective components are diagnosed; deformed, broken, loose, worn, or missing parts of a cab tilt system are repaired, replaced, or rebuilt to manufacturer's specifications; diagnostic checks are conducted and performance is verified; hazards are avoided; and repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.3.2 / OSFM) (CTS 3-8)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

19. Perform repairs on body, compartments, and storage areas, given an emergency response vehicle, manufacturer's specifications, an assignment or inspection report detailing a deficiency or deformation, standard operating procedures (SOPs), test and calibration equipment, and tools, so that defective components are diagnosed;

deformed, broken, loose, worn, or missing parts of a body, compartment, or storage area are repaired, replaced, or rebuilt to manufacturer's specifications; components are fabricated, adjusted, aligned, and lubricated; hazardous conditions are resolved; diagnostic checks are conducted and performance is verified; and repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.3.3 / OSFM) (CTS 3-11)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

20. Perform repairs on a cab, given an emergency response vehicle, manufacturer's specifications, an assignment or inspection report detailing a deficiency or deformation, standard operating procedures (SOPs), test and calibration equipment, and tools, so that defective components are diagnosed; deformed, broken, loose, worn, or missing parts of a cab are repaired, replaced, or rebuilt to manufacturer's specifications; diagnostic checks are conducted and performance is verified; and repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.3.4 / OSFM) (CTS 3-3)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

21. Inspect water/foam agent tanks, given an emergency response vehicle with a water or foam tank, standard operating procedures (SOPs), manufacturer's specifications, tools and test equipment, an assignment, and an inspection checklist, so that the mounting and condition of the water/foam agent tank is verified; all coated and noncoated surfaces are free of corrosion; sacrificial anodes are evaluated for life-cycle condition and replaced if necessary; the tank is flushed; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspections and checks are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 4.5.2 / OSFM) (CTS 5-4)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

## Emergency Vehicle Technician 1 Instructor Task Book (2020)

---

22. Perform repairs on water/foam tanks, given an emergency response vehicle with a water or foam tank, manufacturer's specifications, an assignment or inspection report detailing a deficiency or deformation, standard operating procedures (SOPs), and tools, so that leaks are repaired; interior and exterior surfaces are free of corrosion; coatings are renewed; deformed, broken, loose, worn, or missing parts are repaired, replaced, or rebuilt to manufacturer's specifications; service flow test of the tank(s) is conducted; and the repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.5.2 / OSFM) (CTS 5-5)

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation			
2 <sup>nd</sup> Evaluation			

## Emergency Vehicle Technician 1B: Electrical Systems A (2020)

23. Inspect the low-voltage electrical system, given an emergency response vehicle; standard operating procedures (SOPs), manufacturer's specifications; tools and test equipment, including a belt tension gauge and a digital multimeter (DVOM); an assignment; and an inspection checklist, so that the mounting security is verified; operation and condition of the low-voltage electrical system is verified to be within manufacturer's specifications; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspection and checks are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 4.4.1 / OSFM) (CTS 4-1)

	Course Code	Date	Initials
1 <sup>st</sup> Evaluation			
2 <sup>nd</sup> Evaluation			

24. Perform maintenance on the low-voltage electrical system, given an emergency response vehicle, manufacturer's specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), test and calibration equipment, and tools, so that deformed, broken, loose, worn, or missing parts are repaired or replaced; the operational condition is preserved or restored; calibration and adjustments are performed; activities are documented; and additional repair needs are reported. (NFPA 4.4.2) (CTS 4-2)



	Course Code	Date	Initials
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

### Emergency Vehicle Technician 1C: Pumps and Accessories (2020)

25. Inspect fire pumps or auxiliary pump and related components, given an emergency response vehicle with a fire pump or an auxiliary pump, standard operating procedures (SOPs), manufacturer’s specifications, tools and test equipment, an assignment, and an inspection checklist, so that the security of the mounting of all system components (e.g., primer pump, plumbing and valves, pressure control devices, gauges) is verified; operation and condition of the system components, warning system, and interlocks are verified to be within manufacturer’s specifications; adjustments are made where required; recommended fluid levels are verified; leaks and fluid contamination are identified and reported; all checklist items are inspected; defects and deficiencies, including broken, loose, worn, or missing parts, are identified and reported; and inspection and checks are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 4.5.1 / OSFM) (CTS 5-1)

	Course Code	Date	Initials
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

26. Perform maintenance on a fire pump or auxiliary pump and related components, given an emergency response vehicle with a fire pump or an auxiliary pump, manufacturer’s specifications, a maintenance schedule or an assignment, a maintenance checklist, standard operating procedures (SOPs), test and calibration equipment, and tools, so that deformed, broken, loose, worn, or missing parts are repaired or replaced; all packing and seals are adjusted to specification; hoses, valves, and fittings are in good condition and are leak-free; fluids are at recommended levels; recommended lubricants are applied; indicator lights are operational and electrical connections are clean and tight; instrumentation is operational; controls are adjusted, lubricated, and operational; the system's operational condition is preserved or restored; activities are documented; and additional repair needs are reported. (NFPA 4.5.3) (CTS 5-2)

	Course Code	Date	Initials
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

27. Perform repairs on fire pumps or auxiliary pumps and related components, given an emergency response vehicle with a fire pump or auxiliary pump, wildland pump, ultra-high-pressure or industrial pump; manufacturer specifications; an assignment or inspection report detailing a deficiency or deformation; standard operating procedures (SOPs), test, calibration, and diagnostic equipment, and tools, so that defective components are diagnosed; deformed, broken, loose, worn, or missing parts on a fire pump, auxiliary pumps, or related components are repaired, replaced, or rebuilt to manufacturer specifications; operational and service tests are conducted and performance is verified; and repairs are documented in accordance with the procedures of the manufacturer and the authority having jurisdiction. (NFPA 5.5.1 / OSFM) (CTS 5-3)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

28. Complete performance testing on apparatus fire pumps and related components in accordance with NFPA 1911, given an emergency response vehicle with a fire pump, wildland pump, ultra-high-pressure pump or industrial pump, manufacturer's specifications, standard operating procedures (SOPs), test and calibration equipment, facilities, and tools, so that the pumping systems are capable of meeting the performance requirements without exceeding 110 percent of the original certification test rpm, and all testing is documented in accordance with the procedures of NFPA standards and the authority having jurisdiction. (NFPA 5.5.3 / OSFM) (CTS 5-6)

	<b>Course Code</b>	<b>Date</b>	<b>Initials</b>
<b>1<sup>st</sup> Evaluation</b>			
<b>2<sup>nd</sup> Evaluation</b>			

