



Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Performing Control Options	NFPA Standard 1002: 4.2.1
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Knowledge Objectives

Perform routine tests, inspections, and servicing functions on the systems and components specified in the following list, given a fire department vehicle, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified:

- | | |
|-----------------------|---------------------------------------|
| (1) Battery(ies) | (7) Oil |
| (2) Braking system | (8) Tires |
| (3) Coolant system | (9) Steering system |
| (4) Electrical system | (10) Belts |
| (5) Fuel | (11) Tools, appliances, and equipment |
| (6) Hydraulic fluids | |

Cognitive Skill	NFPA Reference
None	

Objective	Psychomotor Skill	Pass	Fail
4.2.1	Demonstrate the ability to use hand tools		
4.2.1	Demonstrate the ability to recognize system problems		
4.2.1	Demonstrate the ability to document any deficiency noted according to policies and procedures.		

Student's Name		Completion Date
Instructor's Name	Certification #	Completion Date



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Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Performing Control Options	NFPA Standard 1002: 4.2.2
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Knowledge Objectives

Document the routine tests, inspections, and servicing functions, given maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.

Cognitive Skill	NFPA Reference
List routine tests, inspection, and servicing functions given maintenance and section forms, so that all items are checked for operation and deficiencies are reported.	4.2.2
Discuss requirements for documenting maintenance performed and the importance of keeping accurate records.	4.2.2

Objective	Psychomotor Skill	Pass	Fail
4.2.2	Demonstrate the ability to use tools and equipment and complete all related departmental forms.		

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Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Driving / Operating	NFPA Standard 1002: 4.3.1
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Knowledge Objectives

Operate a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features, specified in the following list, that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state and local laws, departmental rules and regulations, and the requirements of NFPA 1500, Section 4.2:

- (1) Four left turns and four right turns
- (2) A straight section of urban business street or a two-lane rural road at least 1.6 km (1 mile) in length
- (3) One through-intersection and two intersections where a stop has to be made
- (4) One railroad crossing
- (5) One curve, either left or right
- (6) A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow two lane changes
- (7) A downgrade steep enough and long enough to require down-shifting and braking
- (8) An upgrade steep enough and long enough to require gear changing to maintain speed
- (9) One underpass or a low clearance or bridge

Cognitive Skill	NFPA Reference
Describe the effects on vehicle control of liquid surge, braking reaction time, and load factors; effects of high center of gravity on roll-over potential, general steering reactions, speed, and centrifugal force; applicable laws and regulations; principles of skid avoidance, night driving, shifting, and gear patterns; negotiating intersections, railroad crossings, and bridges; weight and height limitations for both roads and bridges; identification and operation of automotive gauges; and operational limits.	4.3.1



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Objective	Psychomotor Skill	Pass	Fail
4.3.1	<p>Demonstrate the operation of a fire department vehicle, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features, specified in the following list, that the driver/operator is expected to encounter during normal operations, so that the vehicle is operated in compliance with all applicable state laws, local laws, and departmental rules and regulations:</p> <ol style="list-style-type: none"> (1) Four left turns and four right turns (2) A straight section of urban business street or a two-lane rural road at least 1.6 km (1 mile) in length (3) One through-intersection and two intersections where a stop has to be made (4) One railroad crossing (5) One curve, either left or right (6) A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow a two lane change. (7) A downgrade steep enough and long enough to require down-shifting and raking (8) An upgrade steep enough and long enough to require gear changing to maintain speed (9) One underpass or a low clearance or bridge 		
4.3.1	<p>Demonstrate the ability to operate passenger restraint devices; maintain safe following distances; maintain control of the vehicle while accelerating, decelerating, and turning, given road, weather, and traffic conditions; operate under adverse environmental or driving surface conditions; and use automotive gauges and controls.</p>		

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Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Driving / Operating	NFPA Standard 1002: 4.3.2
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Knowledge Objectives

Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 3.7 m (12 ft) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.

Cognitive Skill	NFPA Reference
Discuss the vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.	4.3.2

Objective	Psychomotor Skill	Pass	Fail
4.3.2	Perform the ability to use mirrors and judge vehicle clearance. Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 3.7 m (12 ft) in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions		
4.3.2	Demonstrate the ability to use mirrors and judge vehicle clearance.		

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Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Driving / Operating	NFPA Standard 1002: 4.3.3
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Knowledge Objectives

Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.

Cognitive Skill	NFPA Reference
Explain the vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.	4.3.3

Objective	Psychomotor Skill	Pass	Fail
4.3.3	Perform the ability to maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.		
4.3.3	Demonstrate the capability to use mirrors and judge vehicle clearance.		

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Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
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Category: Driving / Operating	NFPA Standard 1002: 4.3.4
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Knowledge Objectives

Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.

Cognitive Skill	NFPA Reference
None	

Objective	Psychomotor Skill	Pass	Fail
4.3.4	Demonstrate the capability to turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing up, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space.		
4.3.4	Demonstrate the capability to use mirrors and judge vehicle clearance.		

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Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Driving / Operating	NFPA Standard 1002: 4.3.5
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Knowledge Objectives

Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck

Cognitive Skill	NFPA Reference
Explain the vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.	4.3.5

Objective	Psychomotor Skill	Pass	Fail
4.3.5	Demonstrate the ability to maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.		
4.3.5	Demonstrate the capability to use mirrors and judge vehicle clearance.		

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Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

Category: Driving / Operating	NFPA Standard 1002: 4.3.6
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Knowledge Objectives

Operate a vehicle using defensive driving techniques under emergency conditions, given a fire department vehicle and emergency conditions, so that control of the vehicle is maintained.

Cognitive Skill	NFPA Reference
Explain the effects on vehicle control of liquid surge, braking reaction time, and load factors; the effects of high center of gravity on roll-over potential, general steering reactions, speed, and centrifugal force; applicable laws and regulations; principles of skid avoidance, night driving, shifting, and gear patterns; negotiation of intersections, railroad crossings, and bridges; weight and height limitations for both roads and bridges; identification and operation of automotive gauges; and operational limits.	4.3.6

Objective	Psychomotor Skill	Pass	Fail
4.3.6	Demonstrate the operation of a vehicle using defensive driving techniques under emergency conditions, given a fire department vehicle and emergency conditions, so that control of the vehicle is maintained.		
4.3.6	Operate passenger restraint devices; maintain safe following distances; maintain control of the vehicle while accelerating, decelerating, and turning, given road, weather, and traffic conditions; operate under adverse environmental or driving surface conditions; and use automotive gauges and controls.		

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CANDIDATE NAME (Please Print)	
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Category: Driving / Operating	NFPA Standard 1002: 4.3.7
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Knowledge Objectives

Operate all fixed systems and equipment on the vehicle not specifically addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.

Cognitive Skill	NFPA Reference
None	4.3.7

Objective	Psychomotor Skill	Pass	Fail
4.3.7	Demonstrate all fixed systems and equipment on the vehicle not specifically addressed elsewhere in this standard, given systems and equipment, manufacturer's specifications and instructions, and departmental policies and procedures for the systems and equipment, so that each system or piece of equipment is operated in accordance with the applicable instructions and policies.		
4.3.7	Demonstrate the ability to deploy, energize, and monitor the system or equipment and to recognize and correct system problems.		

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Emergency Vehicle Operation

Course Objectives

CANDIDATE NAME (Please Print)	
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Category: NFPA 1451	NFPA Standard 1451: 6.1 Through 10.3
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Knowledge Objectives

Discuss the fire department's driving training program and the critical aspects of NFPA 1451 Standard for a Fire Service.

	Cognitive Skill	NFPA Reference
Laws and Liabilities	Identify type of laws that apply to emergency vehicle operation.	6.1
Laws and Liabilities	Discuss how specific laws apply to emergency vehicle operations.	6.1
Laws and Liabilities	Identify state laws or local laws, standards and requirements that effect the emergency vehicle	6.2
Emergency Response	Explain the reasons that written SOP/SOG's are important to the operation of an effective vehicle driver's training program.	7.1
Emergency Response	Describe the importance of maintaining proficiency through an ongoing training program based on the authority having jurisdiction and the written SOP/SOG's for personnel and vehicles changes.	7.1
Emergency Response	Discuss written SOP/SOG's which impact emergency response procedures.	7.2
Emergency Response	Identify safe driving skill when operating emergency vehicles.	7.2
Emergency Response	Identifying that emergency response driving is a complex process	7.2
Crash and Injury Prevention	Identify the major components of a vehicle.	8.1
Crash and Injury Prevention	Define the types of preventive maintenance.	8.1
Crash and Injury Prevention	Describe the types of preventive maintenance.	8.1
Crash and Injury Prevention	Discuss the procedures for reporting unsafe conditions.	8.2
Crash and Injury Prevention	Describe the elements of training program safety	8.2
Crash and Injury Prevention	List the criteria for safe actions of personnel when operating in or near moving vehicle traffic.	8.3
Crash and Injury Prevention	Identify the recommended best practices to maintaining vehicle control.	8.4
Crash and Injury Prevention	List the primary components needed to be understood to avoid a rollover crash.	8.4



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Crash and Injury Prevention	Explain the concept of roadway safety.	8.5
Crash and Injury Prevention	List the criteria for safe actions of personnel when operating in or near moving vehicle traffic.	8.5
Crash and Injury Prevention	Identify the core components of roadway/highway operations	8.5
Crash and Injury Prevention	Explain the ten best practices to ensure roadway safety	8.5
Crash Review	Identify the procedures for crash investigation	9.1
Vehicle and Apparatus Care	Identify the value and importance of regular inspections and documentation of the inspections on emergency vehicles.	10.1
Vehicle and Apparatus Care	Identify the various classes of preventive maintenance and the importance of a preventive maintenance program for emergency vehicles.	10.1
Vehicle and Apparatus Care	Identify the component of an inspection and maintenance program.	10.2
Vehicle and Apparatus Care	Discuss how to perform pre and post trip inspections.	10.2
Vehicle and Apparatus Care	Identify the role of the driver in inspections and maintenance.	10.2
Vehicle and Apparatus Care	Identify the importance of keeping accurate and complete records.	10.3

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