



**FIRE FIGHTER II  
STUDENT KNOWLEDGE & SKILL OBJECTIVES  
CHECK-OFF SHEET**

**ADVISING NOTES:** Submitted course work must include proof of Knowledge and Skills Document completion. \*Minimum hours 120 plus 16 for Emergency Vehicle Operation Course are required. The objectives listed below shall be completed by the student, and verified by the program director.

COURSE START DATE		END DATE	
STUDENT FIRST NAME	MIDDLE NAME	LAST NAME	

**Fire Fighter II 6.1.1 and 6.1.2 General**

For qualification at Level II, the Fire Fighter I shall meet the general knowledge requirements in the general skill requirement .of the NFPA 1001 standard, and the requirements defined in Chapter 5.

**General Knowledge Requirements:** Responsibilities of the Fire Fighter II in assuming and transferring command within an incident management system, performing assigned duties in conformance with applicable NFPA and other safety regulations and AHJ procedures, and the role of a Fire Fighter II within the organization.

**General Skill Requirements:** The ability to determine the need for command, organize and coordinate an incident management system until command is transferred, and function within an assigned role in an incident management system.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.1.1	General	K	Define the role and responsibilities of a Firefighter II.	
6.1.1	General	K	Describe the roles and responsibilities for assuming and transferring command within IMS.	
6.1.1	General	K	Discuss the responsibilities of the first-arriving fire fighters.	
6.1.1	General	K	Define the applicable NFPA and other safety regulations.	
6.1.1	General	K	Define the applicable NFPA standards and other safety regulations.	
6.1.2	General	S	Demonstrate the ability to determine the need for command.	
6.1.2	General	S	Organize and coordinate an incident management system until command is transferred.	

## Fire Fighter II 6.2.1

## Fire Department Communications

This duty shall involve performing activities related to initiating and reporting responses. Complete a basic incident report, given the report forms, guidelines, and information, so that all pertinent information is recorded, the information is accurate, and the report is complete

**General Knowledge Requirements:** Content requirements for basic incident reports, the purpose and usefulness of accurate reports, consequences of inaccurate reports, how to obtain necessary information, and required coding procedures.

**General Skills Requirements:** The ability to determine necessary codes, proof reports, and operate fire department computers or other equipment necessary to complete reports.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.2.1	Reports	K	Describe the steps in processing and initiating an emergency response.	
6.2.1	Reports	K	List the information that should be included in a basic incident report.	
6.2.1	Reports	K	Explain the purpose and usefulness of accurate reports.	
6.2.1	Reports	K	Discuss the consequences of inaccurate reports.	
6.2.1	Reports	K	List how to obtain the necessary information and the required coding procedures.	
6.2.1	Reports	S	Demonstrate the ability to determine necessary codes.	
6.2.1	Reports	S	Demonstrate the ability to proof reports and the technology necessary to complete reports.	

## Fire Fighter II 6.2.2

## Fire Department Communications

This duty shall involve performing activities related to initiating and reporting responses. Communicate the need for team assistance, given fire department communications equipment, SOPs, and a team, so that the supervisor is consistently informed of team needs, departmental SOPs are followed, and the assignment is accomplished safely.

**General Knowledge Requirements:** SOPs for alarm assignments and fire department radio communication procedures.

**General Skills Requirements:** The ability to operate fire department communications equipment.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.2.2	Communications	K	Discuss the standard operating procedures for alarm assignments and fire department radio communication procedures.	
6.2.2	Communications	S	Demonstrate the ability to operate fire department communication equipment.	

## Fire Fighter II 6.3.1

## Fireground Operations

This duty shall involve performing activities necessary to ensure life safety, fire control, and property conservation. Extinguish an ignitable liquid fire, operating as a member of a team, given an assignment, an attack line, personal protective equipment, a foam proportioning device, a nozzle, foam concentrates, and a water supply, so that the correct type of foam concentrate is selected for the given fuel and conditions, a properly proportioned foam stream is applied to the surface of the fuel to create and maintain a foam blanket, fire is extinguished, re-ignition is prevented, team protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven is reached.

**General Knowledge Requirements:** Methods by which foam prevents or controls a hazard; principles by which foam is generated; causes for poor foam generation and corrective measures; difference between hydrocarbon and polar solvent fuels and the concentrates that work on each; the characteristics, uses, and limitations of fire-fighting foams; the advantages and disadvantages of using fog nozzles versus foam nozzles for foam application; foam stream application techniques; hazards associated with foam usage; and methods to reduce or avoid hazards.

**General Skills Requirements:** The ability to prepare a foam concentrate supply for use, assemble foam stream components, master various foam application techniques, and approach and retreat from spills as part of a coordinated team.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.3.1	Liquid Fire	K	List the methods by which foam prevents or controls a hazard.	
6.3.1	Liquid Fire	K	Describe the principles by which foam is generated.	
6.3.1	Liquid Fire	K	Discuss the causes for poor foam generation and corrective measures.	
6.3.1	Liquid Fire	K	Describe the difference between hydrocarbon and polar solvent fuels and the concentrates that work on each.	
6.3.1	Liquid Fire	K	Describe the characteristics, uses, and limitations of fire fighting foams.	
6.3.1	Liquid Fire	K	List the advantages and disadvantages of using fog nozzles versus foam nozzles for foam application.	
6.3.1	Liquid Fire	K	Discuss the techniques for foam stream application.	
6.3.1	Liquid Fire	K	Describe the hazard associated with foam usage.	
6.3.1	Liquid Fire	K	List the methods used to reduce or avoid hazards.	
6.3.1	Liquid Fire	S	Demonstrate the ability to prepare a foam concentrate supply for use.	
6.3.1	Liquid Fire	S	Assemble foam stream components.	
6.3.1	Liquid Fire	S	Demonstrate how to approach and retreat from spills as part of a coordinated team.	

## Fire Fighter II 6.3.2

## Fireground Operations

This duty shall involve performing activities necessary to ensure life safety, fire control, and property conservation. Coordinate an interior attack line for a team's accomplishment of an assignment in a structure fire, given attack lines, personnel, personal protective equipment, and tools, so that crew integrity is established; attack techniques are selected for the given level of the fire (e.g., attic, grade level, upper levels, or basement); attack techniques are communicated to the attack teams; constant team coordination is maintained; fire growth and development is continuously evaluated; search, rescue, and ventilation requirements are communicated or managed; hazards are reported to the attack teams; and incident command is apprised of changing conditions.

**General Knowledge Requirements:** Selection of the nozzle and hose for fire attack, given different fire situations; selection of adapters and appliances to be used for specific fireground situations; dangerous building conditions created by fire and fire suppression activities; indicators of building collapse; the affects of fire and fire suppression activities on wood, masonry (brick, block, stone), cast iron, steel, reinforced concrete, gypsum wallboard, glass, and plaster on lath; search and rescue and ventilation procedures; indicators of structural instability; suppression approaches and practices for various types of structural fires; and the association between specific tools and special forcible entry needs.

**General Skills Requirements:** The ability to assemble a team, choose attack techniques for various levels of a fire (e.g., attic, grade level, upper levels, or basement), evaluate and forecast a fire's growth and development, select tools for forcible entry, incorporate search and rescue procedures and ventilation procedures in the completion of the attack team efforts, and determine developing hazardous building or fire conditions.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.3.2	Interior Attack	K	Discuss the selection of nozzle and hose for fire attack given different fire situations.	
6.3.2	Interior Attack	K	Discuss the selection of adapter and appliances to be used for specific fireground situations.	
6.3.2	Interior Attack	K	Describe the dangerous building conditions created by the fire and fire suppression activities.	
6.3.2	Interior Attack	K	List the indicators of a building collapse.	
6.3.2	Interior Attack	K	Discuss the effects of fire and fire suppression on wood, masonry (brick, block, stone), cast iron steel, reinforced concrete, gypsum wallboard, glass and plaster on lath.	
6.3.2	Interior Attack	K	Describe search and rescue and ventilation procedures.	
6.3.2	Interior Attack	K	List the indicators of structural instability.	
6.3.2	Interior Attack	K	Discuss the suppression approached and practices for various types of structural fires.	
6.3.2	Interior Attack	K	Describe the association between specific tools and special forcible entry needs.	
6.3.2	Interior Attack	S	Demonstrate the ability to assemble a team, choose attack techniques for various levels of fire (e.g., attic, grade level, upper level, basement), evaluate and forecast a fire's growth and development.	
6.3.2	Interior Attack	S	Select tools for forcible entry.	
6.3.2	Interior Attack	S	Demonstrate how to incorporate search and rescue procedures and ventilation procedures in the completion of the attack team efforts.	
6.3.2	Interior Attack	S	Identify developing hazardous building or fire conditions.	

## Fire Fighter II 6.3.3

## Fireground Operations

This duty shall involve performing activities necessary to ensure life safety, fire control, and property conservation. Control a flammable gas cylinder fire, operating as a member of a team, given an assignment, a cylinder outside of a structure, an attack line, personal protective equipment, and tools, so that crew integrity is maintained, contents are identified, safe havens are identified prior to advancing, open valves are closed, flames are not extinguished unless the leaking gas is eliminated, the cylinder is cooled, cylinder integrity is evaluated, hazardous conditions are recognized and acted upon, and the cylinder is faced during approach and retreat.

**General Knowledge Requirements:** Characteristics of pressurized flammable gases, elements of a gas cylinder, effects of heat and pressure on closed cylinders, boiling liquid expanding vapor explosion (BLEVE) signs and effects, methods for identifying contents, how to identify safe havens before approaching flammable gas cylinder fires, water stream usage and demands for pressurized cylinder fires, what to do if the fire is prematurely extinguished, valve types and their operation, alternative actions related to various hazards, and when to retreat.

**General Skill Requirements:** The ability to execute effective advances and retreats, apply various techniques for water application, assess cylinder integrity and changing cylinder conditions, operate control valves, and choose effective procedures when conditions change.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.3.3	Flammable Gas	K	Discuss the characteristics of pressurized flammable gases.	
6.3.3	Flammable Gas	K	Describe the elements of a gas cylinder, effects of heat and pressure on closed cylinders.	
6.3.3	Flammable Gas	K	Describe the boiling liquid expanding vapor explosion(BLEVE) signs and effects.	
6.3.3	Flammable Gas	K	List the methods for identifying content and how to identify safe havens before approaching flammable gas cylinder fires.	
6.3.3	Flammable Gas	K	Discuss the water stream usage and demands for pressurized cylinders fires.	
6.3.3	Flammable Gas	K	Discuss what to do if the fire is prematurely extinguished.	
6.3.3	Flammable Gas	K	Describe the valve type and their operation.	
6.3.3	Flammable Gas	K	Explain the alternative actions related to various hazards and when to retreat.	
6.3.3	Flammable Gas	S	Demonstrate the ability to execute effective advances and retreat.	
6.3.3	Flammable Gas	S	Demonstrate the applicability of various techniques for water application.	
6.3.3	Flammable Gas	S	Demonstrate the ability to assess cylinder integrity and changing cylinder conditions, operate control valve, and choose effective procedures when conditions change.	

## Fire Fighter II 6.3.4

## Fireground Operations

This duty shall involve performing activities necessary to ensure life safety, fire control, and property conservation. Protect evidence of fire cause and origin, given a flashlight and overhaul tools, so that the evidence is noted and protected from further disturbance until investigators can arrive on the scene.

**General Knowledge Requirements:** Methods to assess origin and cause; types of evidence; means to protect various types of evidence; the role and relationship of Fire Fighter IIs, criminal investigators, and insurance investigators in fire investigations; and the effects and problems associated with removing property or evidence from the scene

**General Skill Requirements:** The ability to locate the fire's origin area, recognizes possible causes, and protects the evidence.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.3.4	Protect Scene	K	Discuss the methods to assess origin and cause, type of evidence, and means to protect various types of evidence.	
6.3.4	Protect Scene	K	Describe the role and the relationship of Firefighter II, criminal investigators, and insurance investigator in a fire investigations.	
6.3.4	Protect Scene	K	Describe the effects and problems associated with removing property or evidence from the scene.	
6.3.4	Protect Scene	S	Demonstrate the ability to locate the fire origin area, recognize possible causes, and protect the evidence.	

## Fire Fighter II 6.4.1

## Rescue Operations

This duty shall involve performing activities related to accessing and disentangling victims from motor vehicle accidents and helping special rescue teams. Extricate a victim entrapped in a motor vehicle as part of a team, given stabilization and extrication tools, so that the vehicle is stabilized, the victim is disentangled without further injury, and hazards are managed.

**General Knowledge Requirements:** The fire department's role at a vehicle accident, points of strength and weakness in auto body construction, dangers associated with vehicle components and systems, the uses and limitations of hand and power extrication equipment, and safety procedures when using various types of extrication equipment.

**General Skill Requirements:** The ability to operate hand and power tools used for forcible entry and rescue as designed; use cribbing and shoring material; and choose and apply appropriate techniques for moving or removing vehicle roofs, doors, windshields, windows, steering wheels or columns, and the dashboard.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.4.1	Extricate Victim	K	Describe the extrication of a victim entrapped in a motor vehicle. As part of a team given stabilization and extrication tools so that that the vehicle is stabilized and the victim is disentangled without further injury and hazards are managed.	
6.4.1	Extricate Victim	S	Demonstrate the ability to operate hand and power tools used for forcible entry and rescue as designed.	
6.4.1	Extricate Victim	S	Demonstrate the usage of cribbing and shoring material.	
6.4.1	Extricate Victim	S	Choose and apply the appropriate techniques for moving or removing vehicle roofs, doors, windshield, windows, steering wheels, columns, and the dashboard.	

## Fire Fighter II 6.4.2 Rescue Operations

This duty shall involve performing activities related to accessing and disentangling victims from motor vehicle accidents and helping special rescue teams. Assist rescue operation teams, given standard operating procedures, necessary rescue equipment, and an assignment, so that procedures are followed, rescue items are recognized and retrieved in the time as prescribed by the AHJ, and the assignment is completed.

**General Knowledge Requirements:** The fire fighter's role at a technical rescue operation, the hazards associated with technical rescue operations, types and uses for rescue tools, and rescue practices and goals.

**General Skill Requirements:** The ability to identify and retrieve various types of rescue tools, establish public barriers, and assist rescue teams as a member of the team when assigned.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.4.2	Assist Team	K	Discuss the firefighter's role at a technical rescue operation, the hazards associated with technical rescue operations, types to uses for rescue tools, and rescue practices and goals.	
6.4.2	Assist Team	S	Demonstrate the ability to identify and retrieve various types of rescue tools.	
6.4.2	Assist Team	S	Demonstrate the ability to establish public barriers and assist rescue teams as a member of the team.	

## Fire Fighter II 6.5.1 Prevention, Preparedness, and Maintenance.

This duty shall involve performing activities related to reducing the loss of life and property due to fire through hazard identification, inspection, and response readiness. Perform a fire safety survey in a private dwelling, given survey forms and procedures, so that fire and life safety hazards are identified, recommendations for their correction are made to the occupant, and unresolved issues are referred to the proper authority.

**General Knowledge Requirements:** Organizational policy and procedures, common causes of fire and their prevention, the importance of a fire safety survey and public fire education programs to fire department public relations and the community, and referral procedures.

**General Skill Requirements:** The ability to complete forms, recognize hazards, match findings to pre-approved recommendations, and effectively communicate findings to occupants or referrals.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.5.1	Prepare Survey	K	Describe organizational policies and procedures.	
6.5.1	Prepare Survey	K	Discuss the common causes of fire and their prevention.	
6.5.1	Prepare Survey	K	Explain the importance of a public safety survey and public fire education programs to a fire department public relations and the community including the referral procedures.	
6.5.1	Prepare Survey	S	Demonstrate the ability to complete forms, recognize hazards, match findings to pre-approved recommendations, and effectively communicate findings to occupants or referrals.	

**Fire Fighter II 6.5.2****Prevention, Preparedness, and Maintenance.**

This duty shall involve performing activities related to reducing the loss of life and property due to fire through hazard identification, inspection, and response readiness. Present fire safety information to station visitors or small groups, given prepared materials, so that all information is presented, the information is accurate, and questions are answered or referred.

**General Knowledge Requirements:** Parts of informational materials and how to use them, basic presentation skills, and departmental standard operating procedures for giving fire station tours.

**General Skill Requirements:** The ability to document presentations and to use prepared materials.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.5.2	Present Information	K	Describe parts of informational materials and how to use them.	
6.5.2	Present Information	K	Discuss basic presentation skills and departmental standard operating procedures for giving fire station tours.	
6.5.2	Present Information	S	Demonstrate the ability to document presentation and to use prepared materials.	

**Fire Fighter II 6.5.3****Prevention, Preparedness, and Maintenance.**

Prepare a pre-incident survey, given forms, necessary tools, and an assignment, so that all required occupancy information is recorded, items of concern are noted, and accurate sketches or diagrams are prepared.

**General Knowledge Requirements:** The sources of water supply for fire protection; the fundamentals of fire suppression and detection systems; common symbols used in diagramming construction features, utilities, hazards, and fire protection systems; departmental requirements for a pre-incident survey and form completion; and the importance of accurate diagrams

**General Skill Requirements:** The ability to identify the components of fire suppression and detection systems; sketch the site, buildings, and special features; detect hazards and special considerations to include in the pre-incident sketch; and complete all related departmental forms.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.5.3	Preincident Survey	K	Describe the source of water supply for fire protection.	
6.5.3	Preincident Survey	K	Discuss the fundamentals of fire suppression and detection systems.	
6.5.3	Preincident Survey	K	Discuss the common symbols used in diagramming construction features, utilities, hazards, and fire protection systems.	
6.5.3	Preincident Survey	K	Explain the departmental requirements for a pre-incident survey and form completion and the importance of accurate diagrams.	
6.5.3	Preincident Survey	S	Demonstrate the components of fire suppression and detection systems, sketch the site, buildings, and special features.	
6.5.3	Preincident Survey	S	Perform the ability to detect hazards and special considerations to include in the pre-incident sketch.	
6.5.3	Preincident Survey	S	Demonstrate the ability to complete all related departmental forms.	

**Fire Fighter II 6.5.4****Prevention, Preparedness, and Maintenance.**

This duty shall involve performing activities related to reducing the loss of life and property due to fire through hazard identification, inspection, and response readiness. Maintain power plants, power tools, and lighting equipment, given tools and manufacturers' instructions, so that equipment is clean and maintained according to manufacturer and departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.

**General Knowledge Requirements:** Types of cleaning methods, correct use of cleaning solvents, manufacturer and departmental guidelines for maintaining equipment and its documentation, and problem-reporting practices.

**General Skill Requirements:** The ability to select correct tools; follow guidelines; complete recording and reporting procedures; and operate power plants, power tools, and lighting equipment.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.5.4	Maintain Tools	K	Discuss the types of cleaning methods.	
6.5.4	Maintain Tools	K	Explain the correct cleaning solvents.	
6.5.4	Maintain Tools	K	Describe manufacturer and departmental guidelines for maintaining equipment and its documentation.	
6.5.4	Maintain Tools	K	Explain the problem reporting practices.	
6.5.4	Maintain Tools	S	Demonstrate the ability to select correct tools , follow guidelines, and complete recording and reporting procedures.	
6.5.4	Maintain Tools	S	Demonstrate the ability to operate power plants, power tools, and lighting equipment.	

**Fire Fighter II 6.5.5****Prevention, Preparedness, and Maintenance.**

This duty shall involve performing activities related to reducing the loss of life and property due to fire through hazard identification, inspection, and response readiness. Perform an annual service test on fire hose, given a pump, a marking device, pressure gauges, a timer, record sheets, and related equipment, so that procedures are followed, the condition of the hose is evaluated, any damaged hose is removed from service, and the results are recorded.

**General Knowledge Requirements:** Procedures for safely conducting hose service testing, indicators that dictate any hose be removed from service, and recording procedures for hose test results.

**General Skill Requirements:** The ability to operate hose testing equipment and nozzles and to record results.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
6.5.5	Annual Test	K	Discuss the procedures for safely conducting hose service testing.	
6.5.5	Annual Test	K	Describe the indicators that dictate any hose be moved from service and recording procedures for hose test results.	
6.5.5	Annual Test	S	Demonstrate the ability to operate a hose testing equipment and nozzles and to record the results.	

## Fire Fighter II 4.2.1

### General

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

**General Knowledge Requirements:** Manufacturer specifications and requirements, policies, and procedures of the jurisdiction.

**General Skills Requirements:** The ability to use hand tools, recognize system problems, and correct any deficiency noted according to policies and procedures.

### Objectives

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.2.1	Preventive Maintenance	K	List routine tests, inspection, and servicing functions performed on the system and components specified in the following list, given a fire department vehicle and its manufacturer's specifications, so the operational status is verified.	
4.2.1	Preventive Maintenance	S	Demonstrate the ability to use hand tools.	
4.2.1	Preventive Maintenance	S	Demonstrate the ability to recognize system problems.	
4.2.1	Preventive Maintenance	S	Demonstrate the ability to document any deficiency noted according to policies and procedures.	
4.2.1	Preventive Maintenance	S	Document routine tests, inspection, and servicing functions given maintenance and section forms, so that all items are checked for operation and deficiencies are reported.	
4.2.1	Preventive Maintenance	S	Discuss requirements for documenting maintenance performed and the importance of keeping accurate records.	
4.2.1	Preventive Maintenance	S	Demonstrate the ability to use tools and equipment and complete all related departmental forms.	

## Fire Fighter II 4.2.2

### Preventive Maintenance

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.

**General Knowledge Requirements:** Departmental requirements for documenting maintenance performed and the importance of keeping accurate records.

**General Skills Requirements:** The ability to use tools and equipment and complete all related departmental forms.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.2.2	Preventive Maintenance	K	Discuss requirements for documenting maintenance performed and the importance of keeping accurate records.	
4.2.2	Preventive Maintenance	S	Demonstrate the ability to use tools and equipment and complete all related departmental forms.	

**Fire Fighter II 4.3.1 Driving/Operation**

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:

- (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.

**General Knowledge Requirements:** 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.

**General Skills Requirements:** 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.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.3.1	Driving/ Operation	K	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	Driving/ Operation	S	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.	
4.3.1	Driving/ Operation	S	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.	

**Fire Fighter II 4.3.2****Driving/Operation**

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.

**General Knowledge Requirements:** Vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.

**General Skills Requirements:** The ability to use mirrors and judge vehicle clearance.

**Objectives**

<b>NFPA</b>	<b>TOPIC</b>	<b>K/S</b>	<b>OBJECTIVE</b>	<b>DATE</b>
4.3.2	Driving/ Operation	K	Discuss the vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.	
4.3.2	Driving/ Operation	S	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	Driving/ Operation	S	Demonstrate the ability to use mirrors and judge vehicle clearance.	

**Fire Fighter II 4.3.3****Driving/Operation**

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.

**General Knowledge Requirements:** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

**General Skills Requirements:** The ability to use mirrors and judge vehicle clearance.

**Objectives**

<b>NFPA</b>	<b>TOPIC</b>	<b>K/S</b>	<b>OBJECTIVE</b>	<b>DATE</b>
4.3.3	Driving/ Operation	K	Discuss the vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.	
4.3.3	Driving/ Operation	S	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.	
4.3.3	Driving/ Operation	S	Demonstrate the ability to use mirrors and judge vehicle clearance.	

**Fire Fighter II 4.3.4 Driving/Operation**

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.

**General Knowledge Requirements:** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

**General Skills Requirements:** The ability to use mirrors and judge vehicle clearance.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.3.4	Driving/Operation	K	Explain the vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.	
4.3.4	Driving/Operation	S	Demonstrate 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.	
4.3.4	Driving/Operation	S	Demonstrate the capability to use mirrors and judge vehicle clearance.	

**Fire Fighter II 4.3.5 Driving/Operation**

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.

**General Knowledge Requirements:** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

**General Skills Requirements:** The ability to use mirrors and judge vehicle clearance.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.3.5	Driving/Operation	K	Discuss the vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.	
4.3.5	Driving/Operation	K	Explain the 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	Driving/Operation	S	Perform the ability to use mirrors and judge vehicle clearance.	

**Fire Fighter II 4.3.6****Driving/Operation**

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.

**General Knowledge Requirements:** 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, gear patterns; and automatic braking systems in wet and dry conditions; 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.

**General Skills Requirements:** 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.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.3.6	Driving/ Operation	K	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	Driving/ Operation	S	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.	
4.3.6	Driving/ Operation	S	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.	

**Fire Fighter II 4.3.7****Driving/Operation**

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.

**General Knowledge Requirements:** Manufacturer's specifications and operating procedures, and policies and procedures of the jurisdiction.

**General Skills Requirements:** The ability to deploy, energize, and monitor the system or equipment and to recognize and correct system problems.

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
4.3.7	Driving/ Operation	K	Explain the manufacturer's specifications and operating procedures, and policies and procedures of the jurisdiction.	
4.3.7	Driving/ Operation	S	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	Driving/ Operation	S	Demonstrate the ability to deploy, energize, and monitor the system or equipment and to recognize and correct system problems.	

**Fire Fighter II NFPA 1451 Standard Driving / Operation**

The purpose of this standard shall be to specify the minimum requirements for a fire service vehicle operations training program, including procedures for those members that drive or occupy fire service vehicles, respond in private vehicles or unconventional means of transportation, and provide traffic control at the scene of an emergency

**Objectives**

NFPA	TOPIC	K/S	OBJECTIVE	DATE
1451		K	Discuss the fire department's driving training program and the critical aspects of NFPA 1451 Standard for a Fire Service Vehicle Operations Training Program explaining the operating procedures, policies, and procedures of the fire department.	
1451		K	Discuss the fire department's driving training program and the critical aspects of NFPA 1451 Standard for a Fire Service Vehicle Operations Training Program explaining the laws and liabilities, crash and injury prevention, and crash review.	
1451		K	Discuss the fire department's driving training program and the critical aspects of NFPA 1451 Standard for a Fire Service Vehicle Operations Training Program explaining the emergency response in fire apparatus and personal vehicles.	

**ADVISING NOTES:** Submitted course work must include proof of Knowledge and Skills Document completion. \*Minimum hours 120 plus 16 for Emergency Vehicle Operation Course are required. The objectives listed below shall be completed by the student, and verified by the program director.

I attest that the fire training objectives listed above have been met and that all information provided is true and accurate to the best of my knowledge. I hereby give permission to the Ohio Department of Public Safety, Division of Emergency Medical Services to verify any of the above information.

STUDENT NAME (PLEASE PRINT)	
SIGNATURE OF STUDENT <b>X</b>	DATE
PROGRAM DIRECTOR (PLEASE PRINT)	
SIGNATURE OF PROGRAM DIRECTOR <b>X</b>	DATE