

State of Oregon  
Department of Public Safety Standards and Training

**NFPA Apparatus Equipped with Fire Pump  
(Pumper)  
Task Book**

Task Book Assigned To:

_____ Name	_____ DPSST Fire Service #
_____ Agency Name	_____ Date Initiated
_____ Signature of Agency Head or Training Officer	_____ Date Completed

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Additional copies of this document may be downloaded from the DPSST web site:  
<http://oregon.gov/DPSST/FC/index.shtml>

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Task Book Qualification Record Books (Task Books) have been developed for various certification levels within the Oregon Department of Public Safety Standards and Training (DPSST) system. Each Task Book lists the job performance requirements (JPRs) for the specific certification level in a format that allows a candidate to be trained then evaluated during separate evaluations. Successful performance of all tasks, as observed and recorded by a qualified and approved evaluator will result in the candidate's eligibility for DPSST certification.

To become certified at a specific level, the applicant must successfully complete the job performance requirements in sequence. Before a job performance evaluation can be taken, all requisite knowledge and skills must be satisfied. In addition, all relative Task Book evaluations must be checked off by the evaluator. When all prescribed requirements have been met, an application for certification will be forwarded to DPSST. All certificates are mailed to the Training Officer at his/her Fire Service Agency.

**TASK BOOK SPECIFICATIONS:**

To successfully complete a task book, only an evaluator certified at the candidate's specific level or higher may sign off on the JPR's. 'Requisite Knowledge' and 'Requisite Skills' sections may be completed during class and signed by the instructor. Evaluation must be completed at candidate's fire agency.

**NFPA TASK BOOK INFORMATION:**

The JPRs covered in this Task Book meet or exceed all NFPA published standards for this certification level at the time of this publication. Mention of NFPA and its standards do not, and are not intended as adoption of—or reference to—NFPA standards. For more information on the complete job performance requirements and data, see the individual DPSST Task Book for that certification level.

## HOW TO EVALUATE PERFORMANCE:

Each JPR has one corresponding box to the right in which to confirm a candidate's success. The evaluator shall indicate successful passing by the candidate of each JPR by initialing and dating (see example below).

\*A vertical line (|) to the left of the document indicates a change from the previous standard.

### EXAMPLE:

<p><b>4.2.2 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.</b></p>	<table border="1"><tr><td data-bbox="941 531 1088 682">ABC 3-1-16</td><td data-bbox="1088 531 1234 682">ABC 3-5-16</td><td data-bbox="1234 531 1385 682">XYZ 4-7-16</td></tr></table> <p>These skills are the job performance evaluations intended to be completed after the Requisite Knowledge and Requisite Skills have been successfully finished. This section should be accomplished during three separate dates at the firefighter's home department or, if no one at the home department is certified to sign off on the skills, at a neighboring department.</p>	ABC 3-1-16	ABC 3-5-16	XYZ 4-7-16
ABC 3-1-16	ABC 3-5-16	XYZ 4-7-16		
<p><b>(A) Requisite Knowledge.</b> Departmental requirements for documenting maintenance performed and the importance of keeping accurate records.</p>	<table border="1"><tr><td data-bbox="941 1039 1088 1186">NMO 2-4-16</td></tr></table> <p>The Requisite Knowledge portions of the task book may be done during class and signed off by the instructor. Requisite Knowledge are the only JPR's that are intended to be signed off in class.</p>	NMO 2-4-16		
NMO 2-4-16				
<p><b>(B) Requisite Skills.</b> The ability to use tools and equipment and complete all related departmental forms.</p>	<table border="1"><tr><td data-bbox="941 1438 1088 1585">ABC 2-9-16</td></tr></table> <p>Requisite Skills are intended to be completed at the firefighter's home department or, if no one at the home department is certified to sign off on the skills, at a neighboring department.</p>	ABC 2-9-16		
ABC 2-9-16				



**TASK BOOK QUALIFICATION RECORD**  
FOR THE CERTIFICATION LEVEL OF  
**NFPA Apparatus Equipped with Fire Pump**

Prior to becoming certified in this position, the sample candidate must successfully complete the following Job Performance Requirements (JPR). The evaluator shall initial and date the appropriate box to indicate successful completion. For each JPR there are requisite knowledge and skill requirements. The evaluator must initial and date in the box provided to indicate the meeting of those requirements before the firefighter may proceed.

**4.1 General.**

Prior to operating fire department vehicles, the fire apparatus driver/operator shall meet the job performance requirements defined in Sections 4.2 and 4.3.

**4.2 Preventive Maintenance.**

**4.2.1\* 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
- 12) Built-in safety features

**(A) Requisite Knowledge.** Manufacturer specifications and requirements, policies, and procedures of the jurisdiction.

**(B) Requisite Skills.** The ability to use hand tools, recognize system problems, and correct any deficiency noted according to policies and procedures.

**4.2.2 Document the visual and operational checks, given maintenance and inspection forms, so that all items are checked for operation and deficiencies are reported.**

**(A) Requisite Knowledge.** Departmental requirements for documenting maintenance performed and the importance of keeping accurate records.

**(B) Requisite Skills.** The ability to use tools and equipment and complete all related departmental forms.

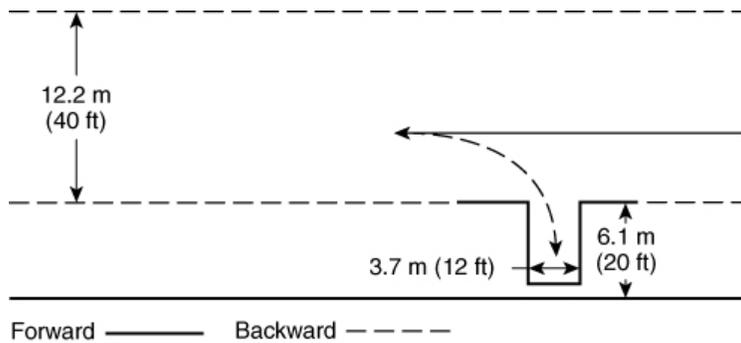
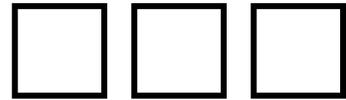
### 4.3 Driving/Operating.

**4.3.1\* Operate a fire apparatus, given a vehicle and a predetermined route on a public way that incorporates the maneuvers and features 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 and departmental rules and regulations.**

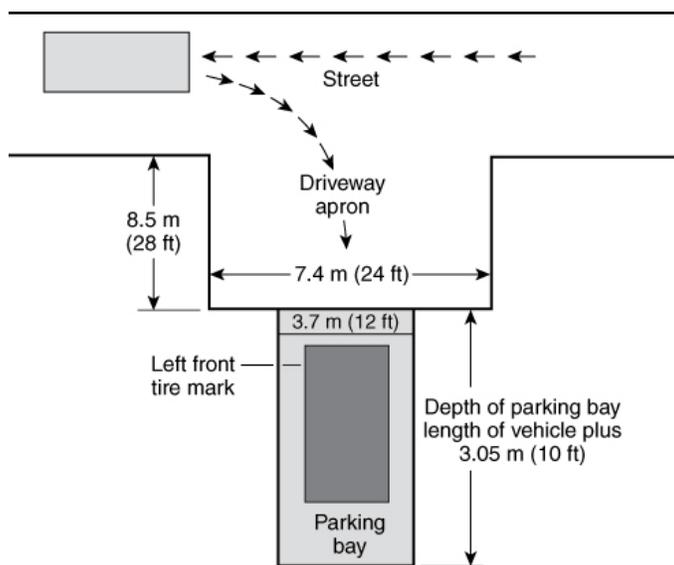
**(A) Requisite Knowledge.** The importance of donning passenger restraint devices and ensuring crew safety; the common causes of fire apparatus accidents and the recognition that drivers of fire apparatus are responsible for the safe and prudent operation of the vehicle under all conditions; the effects 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.

**(B) Requisite Skills.** 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.

**4.3.2\*** 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.



**FIGURE A.4.3.2(a)**  
Alley Dock Exercise.



**FIGURE A.4.3.2(b)**  
Station Parking Procedure Drill.

(A) **Requisite Knowledge.** Vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.

(B) **Requisite Skills.** The ability to use mirrors and judge vehicle clearance.

4.3.3\* **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.**

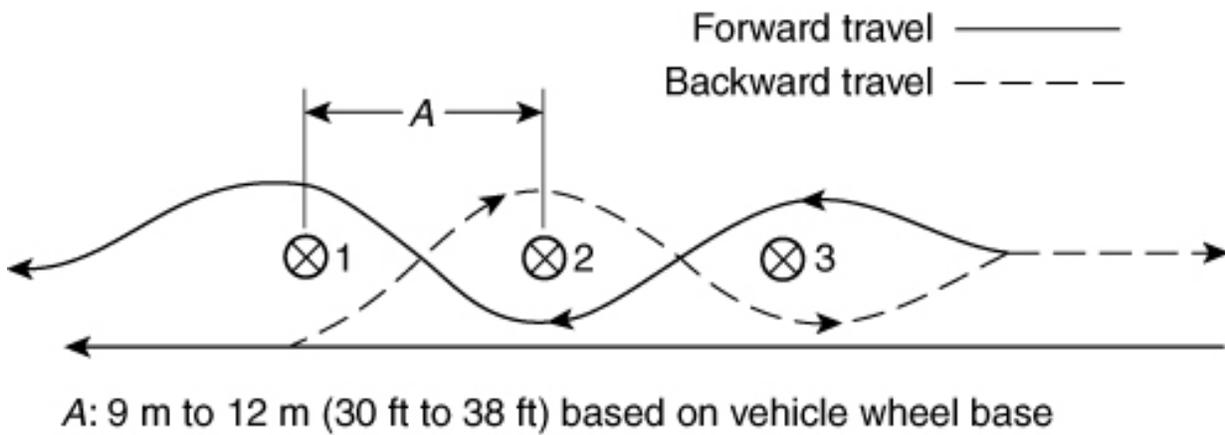
  

FIGURE A.4.3.3  
Serpentine Exercise.

(A) **Requisite Knowledge.** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

(B) **Requisite Skills.** The ability to use mirrors and judge vehicle clearance.

4.3.4\* Turn a fire apparatus 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.

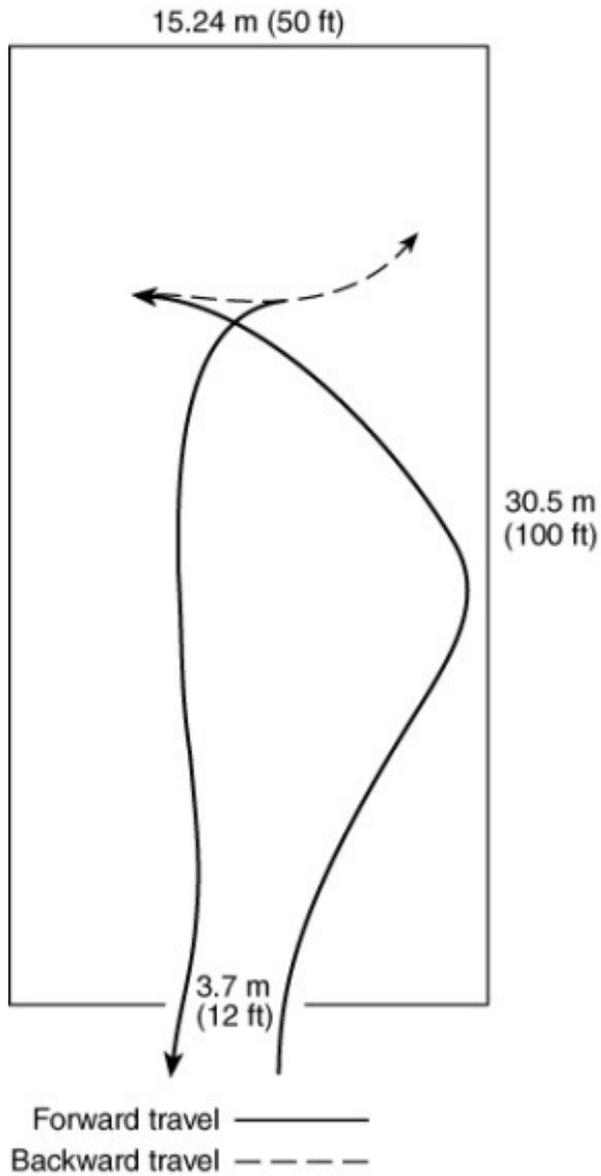
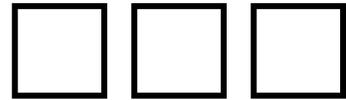


FIGURE A.4.3.4  
Confined Space Turnaround.

(A) **Requisite Knowledge.** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

(B) **Requisite Skills.** The ability to use mirrors and judge vehicle clearance.

**4.3.5\* 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.**

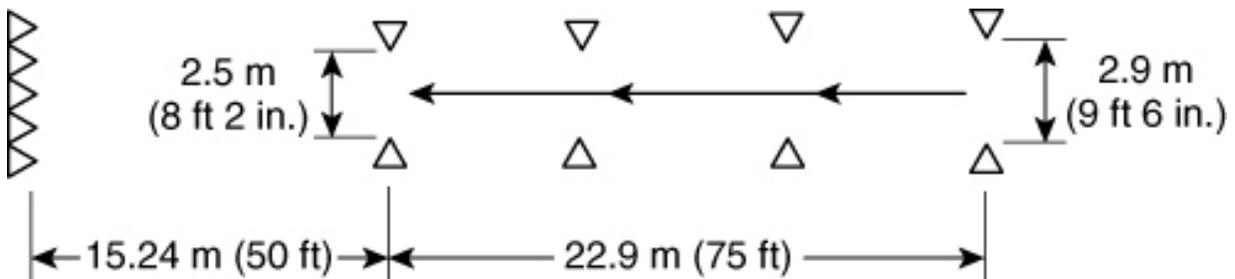
  

FIGURE A.4.3.5  
Diminishing Clearance Exercise.

(A) **Requisite Knowledge.** Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

(B) **Requisite Skills.** The ability to use mirrors and judge vehicle clearance.

**4.3.6\* Operate a vehicle using defensive driving techniques, given an assignment and a fire apparatus, so that control of the vehicle is maintained.**

**(A) Requisite Knowledge.** The importance of donning passenger restraint devices and ensuring crew safety; the common causes of fire apparatus accidents and the recognition that drivers of fire apparatus are responsible for the safe and prudent operation of the vehicle under all conditions; the effects on vehicle control of liquid surge, braking reaction time, and load factors; the effects of high center of gravity on rollover 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.

**(B) Requisite Skills.** 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.

**4.3.7\* 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.**

**(A) Requisite Knowledge.** Manufacturer's specifications and operating procedures, and policies and procedures of the jurisdiction.

**(B) Requisite Skills.** The ability to deploy, energize, and monitor the system or equipment and to recognize and correct system problems.

#### **4.4 Fire Department Communications**

This duty shall involve initiating responses, receiving telephone calls, and using fire department communications equipment to correctly relay verbal or written information

**4.4.1 Initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center. [1001:5.2.1]**

**(A) Requisite Knowledge.** Procedures for reporting an emergency; departmental SOPs for taking and receiving alarms, radio codes, or procedures; and information needs of dispatch center. [1001:5.2.1(A)]

**(B) Requisite Skills.** The ability to operate fire department communications equipment, relay information, and record information. [1001:5.2.1(B)]

**4.4.2 Receive a telephone call, given a fire department phone, so that procedures for answering the phone are used and the caller's information is relayed.** [1001:5.2.2]

**(A) Requisite Knowledge.** Fire department procedures for answering nonemergency telephone calls. [1001:5.2.2(A)]

**(B) Requisite Skills.** The ability to operate fire station telephone and intercom equipment. [1001:5.2.2(B)]

**4.4.3 Transmit and receive messages via the fire department radio, given a fire department radio and operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.** [1001:5.2.3]

**(A) Requisite Knowledge.** Departmental radio procedures and etiquette for routine traffic, emergency traffic, and emergency evacuation signals. [1001:5.2.3(A)]

**(B) Requisite Skills.** The ability to operate radio equipment and discriminate between routine and emergency traffic. [1001:5.2.3(B)]

**4.4.4 Activate emergency procedures, given an emergency situation and department SOPs, so that emergency actions can be initiated.**

**(A) Requisite Knowledge.** Department SOPs and emergency communication procedures.

**(B) Requisite Skills.** The ability to activate emergency procedures in accordance with the department's SOPs.

**5.1\* General.**

The job performance requirements defined in Sections [5.1](#) and [5.2](#) shall be met prior to qualifying as a fire department driver/operator — pumper.

**5.1.1 The organization of the fire department; the role of the driver/operator in the organization; the mission of fire service; the fire department's standard operating procedures (SOPs) and rules and regulations as they apply to the driver/operator; the value of fire and life safety initiatives in support of the fire department mission and to reduce fire fighter line-of-duty injuries and fatalities; the role of other agencies as they relate to the fire department; aspects of the fire department's member assistance program; the importance of physical fitness and a healthy lifestyle to the performance of the duties of a fire fighter; the critical aspects of [NFPA 1500](#). [1001:5.1.1]**

**5.1.2 Perform the visual and operational checks on the systems and components specified in the following list in addition to those in [4.2.1](#), given a fire department pumper, its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the pumper is verified:**

- 1) Water tank and other extinguishing agent levels (if applicable)
- 2) Pumping systems
- 3) Foam systems

**(A) Requisite Knowledge.** Manufacturer's specifications and requirements, and policies and procedures of the jurisdiction.

**(B) Requisite Skills.** The ability to use hand tools, recognize system problems, and correct any deficiency noted according to policies and procedures.

**5.2 Operations.**

**5.2.1 Respond on apparatus to an emergency scene, given safety equipment as provided by the AHJ, so that the apparatus is correctly mounted and dismounted and seat belts are used while the vehicle is in motion.**

**(A) Requisite Knowledge.** Mounting and dismounting procedures for riding fire apparatus, hazards and ways to avoid hazards associated with riding apparatus, prohibited practices, and types of department safety equipment and the means for usage. [1001:5.3.2(A)]

**(B) Requisite Skills.** The ability to use each piece of provided safety equipment. [1001:5.3.2(B)]

**5.2.2 Establish and operate in work areas at emergency and nonemergency scenes, given safety equipment, traffic and scene control devices, emergency and nonemergency scenes, traffic and other hazards, an assignment, and SOPs, so that procedures are followed, safety equipment is utilized, protected work areas are established as directed using traffic and scene control devices, and the driver/operator performs assigned tasks only in established, protected work areas.**

**(A) Requisite Knowledge.** Potential hazards involved in operating on emergency and nonemergency scenes including vehicle traffic, utilities, and environmental conditions; proper procedures for dismounting apparatus in traffic; procedures for safe operation at emergency and nonemergency scenes; and the safety equipment available for members on emergency and nonemergency scenes.

**(B) Requisite Skills.** The ability to use safety equipment, deploy traffic and scene control devices, dismount apparatus, establish and operate in the protected work areas as directed.

**5.2.3 Connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, and a fire hydrant or static water source, so that connections are tight and water flow is unobstructed. [1001:5.3.15]**

**(A) Requisite Knowledge.** Loading and off-loading procedures for mobile water supply apparatus; fire hydrant operation; and suitable static water supply sources, procedures, and protocol for connecting to various water sources. [1001:5.3.15(A)]

**(B) Requisite Skills.** The ability to hand lay a supply hose, connect and place hard suction hose for drafting operations, deploy portable water tanks as well as the equipment necessary to transfer water between and draft from them, make hydrant-to-pumper hose connections for forward and reverse lays, connect supply hose to a hydrant, and fully open and close the hydrant. [1001:5.3.15(B)]

**5.2.4 Produce effective hand or master streams, given the sources specified in the following list, so that the pump is engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is monitored for potential problems:**

- (1) Internal tank
- (2) Pressurized source [see A.5.2.4(2)]
- (3) Static source
- (4) Transfer from internal tank to external source

**(A) Requisite Knowledge.** Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources.

**(B) Requisite Skills.** The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling systems, make the transition between internal and external water sources, and assemble hose lines, nozzles, valves, and appliances.

**5.2.5 Pump a supply line of 2 1/2 in. (65 mm) or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the correct pressure and flow are provided to the next pumper in the relay.**

**(A) Requisite Knowledge.** Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources.

**(B) Requisite Skills.** The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling systems, make the transition between internal and external water sources, and assemble hose lines, nozzles, valves, and appliances.

**5.2.6 Produce a foam fire stream, given foam-producing equipment, so that proportioned foam is provided.**

(A) **Requisite Knowledge.** Proportioning rates and concentrations, equipment assembly procedures, foam system limitations, and manufacturer's specifications.

(B) **Requisite Skills.** The ability to operate foam proportioning equipment and connect foam stream equipment.

**5.2.7 Supply water to fire sprinkler and standpipe systems, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.**

(A) **Requisite Knowledge.** Calculation of pump discharge pressure; hose layouts; location of fire department connection; alternative supply procedures if fire department connection is not usable; operating principles of sprinkler systems as defined in [NFPA 13](#), [NFPA 13D](#), and [NFPA 13R](#); fire department operations in sprinklered properties as defined in [NFPA 13E](#); and operating principles of standpipe systems as defined in [NFPA 14](#).

(B) **Requisite Skills.** The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling systems, make the transition between internal and external water sources, and assemble hose lines, nozzles, valves, and appliances.