State of Oregon
Department of Public Safety Standards and Training

Pumper Operator
Task Book

Task Book Assigned To:	
Name	**DPSST Fire Service #**
Department Name	**Date Initiated**
Signature of Department Head or Training Officer	**Date Completed**

Department of Public Safety Standards and Training
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Additional copies of this document may be downloaded from the DPSST web site:
http://www.oregon.gov/DPSST

Task Book Qualification Record Books (Task Book) 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 and evaluated during three (3) sequential sessions. 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 department.

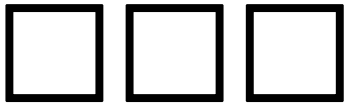
Note to departments: These JPRs serve as general guidelines. As such they are not intended to replace specific sequences of apparatus or equipment operation that may be outlined by manufacturer specifications. At all times, standard operating procedures of the department in which the evaluation is being conducted will govern. Departments should have available for evaluators a copy of manufacturer specifications and the department's standard operational guidelines.

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 Test Book for that certification level.

HOW TO EVALUATE PERFORMANCE:

Each JPR has three corresponding boxes to the right in which to confirm a candidate's success in a sequence. The evaluator shall indicate successful passing by the candidate of each JPR by initialing and dating (see example). There is no time restriction or constriction between the three evaluations, as long as they are consecutive.

3-1.1 Perform the routine tests, inspections, and servicing functions specified in the following list, given a fire department aerial apparatus, so that the operational readiness of the apparatus is verified.



TASK BOOK QUALIFICATION RECORD

FOR THE CERTIFICATION LEVEL OF

3.0 - PUMPER OPERATOR

Prior to becoming certified in this position, the fire apparatus driver/operator shall successfully complete the following Job Performance Requirements (JPR) three times. The evaluator shall initial and date the appropriate boxes to indicate successful completion of each. For each JPR there are requisite knowledge and skill requirements. The evaluator of the first sequence shall initial and date in the box provided to indicate the meeting of those requirements before the driver/operator may proceed.

3-1.1 Perform the routine tests, inspections, and servicing functions specified in the following list, given a fire department pumper, so that the operational readiness of the apparatus is verified.

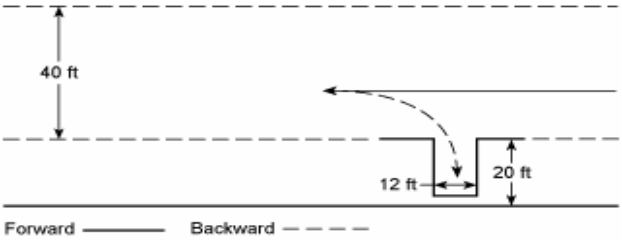
- Batteries
- Belts
- braking system
- coolant system
- electrical system
- fuel
- hydraulic fluids
- lubrication
- oil
- steering system
- tires
- tools, appliances, and equipment
- Water tank and other extinguishing agent levels (if applicable)
- Pumping systems
- Foam systems

Requisite Knowledge. Manufacturer specifications and requirements, department policies and procedures.

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

3-1.2 Perform the practical driving exercises specified in 2-3.2 through 2-3.5, given a fire department aerial apparatus and a spotter for backing, so that each exercise is performed safely without striking the vehicle or obstructions.

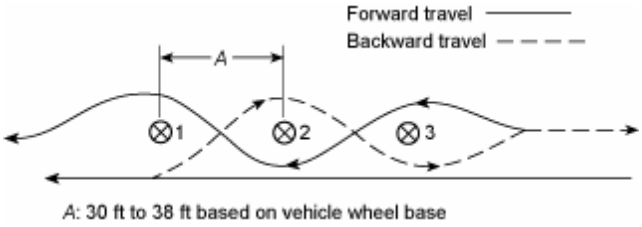
2-3.2 Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 12 ft in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions.



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

Requisite Skills. The ability to use mirrors, judge vehicle clearance, and operate the vehicle safely.

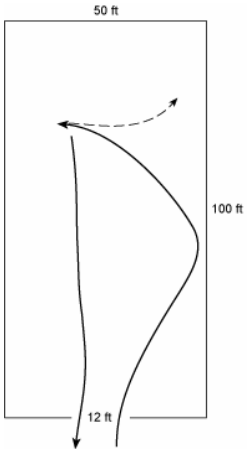
2-3.3 Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without striking the obstructions.



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

Requisite Skills. The ability to use mirrors, judge vehicle clearance, and operate the vehicle safely. ☐

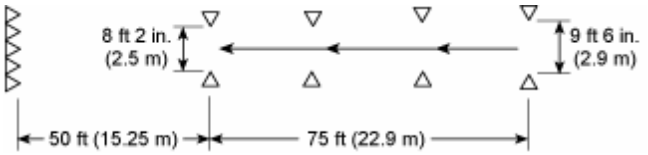
2-3.4 Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the given space. ☐ ☐ ☐



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

Requisite Skills. The ability to use mirrors, judge vehicle clearance, and operate the vehicle safely. ☐

2-3.5 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. ☐ ☐ ☐



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

Requisite Skills. The ability to use mirrors, judge vehicle clearance, and operate the vehicle safely. ☐

3-1.2 Operate a fire department pumper over a predetermined route on a public way, given the maneuvers specified in 2-3.1, so that the vehicle is safely operated in compliance with all applicable state and local laws, departmental rules and regulations, and the requirements of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, Section 4-2. ☐ ☐ ☐

Requisite Knowledge: The effects on vehicle control of liquid surge, braking reaction time, load factors, 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 proper operation limits. ☐

Requisite Skills: The ability to operate passenger restraint devices, maintain safe following distances, maintain control of the vehicle while accelerating, decelerating, and turning, maintain reasonable speed for road, weather, and traffic conditions, operate safely during nonemergency conditions, operate under adverse environmental or driving surface conditions, and use automotive gauges and controls. ☐

3-2.1 Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the ☐ ☐ ☐

nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.

- Internal tank
- Pressurized source
- Static source
- Transfer from internal tank to external source

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 cooling systems, and reliability of static sources. ☐

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. ☐

3-2.2 Pump a supply line of 2½ in. or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the proper pressure and flow are provided to the next pumper in the relay. ☐ ☐ ☐

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 cooling systems, and reliability of static sources. ☐

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.

3-2.3 Produce a foam fire stream, given foam-producing equipment, so that properly proportioned foam is provided. ☐ ☐ ☐

Requisite Knowledge: Proportioning rates and concentrations, equipment assembly procedures, foam systems limitations, and manufacturer specifications. ☐

Requisite Skills: The ability to operate foam proportioning equipment and connect foam stream equipment. ☐

3-2.4 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 proper volume and pressure. ☐ ☐ ☐

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, Standard for the Installation of Sprinkler Systems, NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, and NFPA 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height; fire department operations in sprinklered properties as defined in NFPA 13E, Guide for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems; and operating principles of standpipe systems as defined in NFPA 14, Standard for the Installation of Standpipe and Hose Systems. ☐