

State of Oregon
Department of Public Safety Standards and Training

Aircraft Rescue & Fire-Fighting
Apparatus Operator
Task Book

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

Portions of this evaluation instrument are reprinted with permission from NFPA 1002 – 1998 edition, “Standard on Fire Apparatus, Driver/Operator Professional Qualifications”, Copyright 1998. National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

Department of Public Safety Standards and Training
4190 Aumsville Hwy. SE
Salem, OR 97317
(503) 378-2100

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 adoption of—or reference to—NFPA standards. For more information on the complete job performance requirements and data, see the individual DPSST Test 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 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.

7-1.1 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.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------

TASK BOOK QUALIFICATION RECORD

FOR THE CERTIFICATION LEVEL OF

7.0 – AIRCRAFT RESCUE & FIRE-FIGHTING APPARATUS 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.

7-1.1 Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those contained in the list in 2-2.1, given an ARFF vehicle and the manufacturer’s servicing, testing, and inspection criteria, so that the operational status of the vehicle is verified.

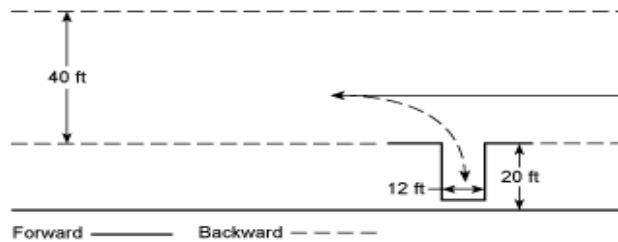
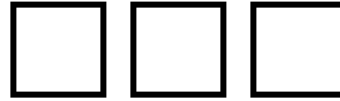
- Battery(ies)
- Braking system
- Coolant system
- Electrical system
- Fuel
- Hydraulic fluids
- Oil
- Tires
- Steering system
- Belts
- Tools, appliances, and equipment
- Agent dispensing systems
- Secondary extinguishing systems
- Vehicle-mounted breathing air systems

Requisite Knowledge: Manufacturer specifications and requirements, policies, and procedures of the jurisdiction.

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

7-1.2 Perform the practical driving exercises specified in 2-3.2 through 2-3.5, given an ARFF vehicle 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.



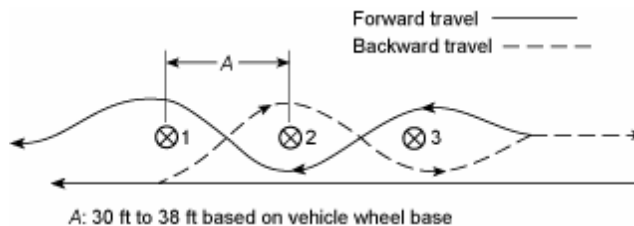
Requisite Knowledge. Vehicle dimensions, turning characteristics, spotter signaling, and principles of safe vehicle operation.



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



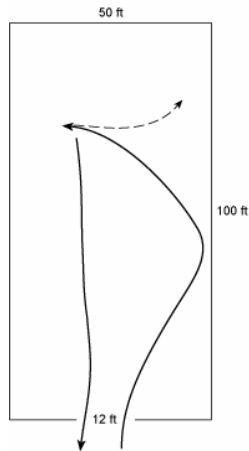
2-3.3 Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse, given a fire department vehicle, a spotter for backing, and a roadway with obstructions, so that the vehicle is maneuvered through the obstructions without stopping to change the direction of travel and without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

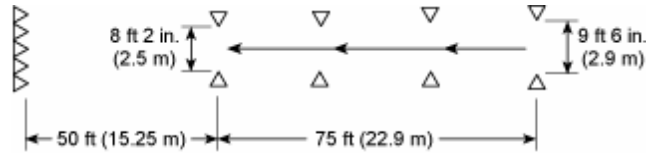
2-3.4 Turn a fire department vehicle 180 degrees within a confined space, given a fire department vehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that the vehicle is turned 180 degrees without striking obstructions within the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

7-1.3 Operate an ARFF vehicle, given a predetermined route on an airport that includes the maneuvers listed in the list in 2-3.1, and operation on a taxiway, a runway, and in an aircraft parking area, so that the vehicle is safely operated in compliance with all applicable federal, state/provincial, 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; proper operation limits; hazards of driving through smoke; control tower light signals; airfield markings; runway and taxiway designations; air and vehicle traffic patterns; and aircraft parking designations.



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



7-1.4 Operate an ARFF apparatus, given a predetermined route, off of an improved surface 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 safely operated in compliance with all applicable departmental rules and regulations, the requirements of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, Section 4-2, and the design limitations of the vehicle.



- Loose or wet soil
- Steep grades (30 percent fore and aft)
- Limited sight distance
- Vehicle clearance obstacles (height, width, undercarriage)
- Limited space for turnaround
- Side slopes (20 percent side to side)

Requisite Knowledge: The effects on vehicle control of 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.

7-2.1 Maneuver and position an ARFF vehicle, given an incident location and description that involves the largest aircraft that routinely uses the airport, so that the vehicle is properly positioned for safe operation at each operational position for the aircraft.

Requisite Knowledge: Vehicle positioning for fire-fighting and rescue operations; capabilities and limitations of turret devices related to reach; and effects of topography, ground, and weather conditions on agent application, distribution rates, and density.

Requisite Skills: The ability to determine the appropriate position for the apparatus, maneuver apparatus into proper position, and avoid obstacles to operations.

7-2.2 Produce a fire stream while the vehicle is in both forward and reverse power modulation, given a discharge rate and intended target, so that the pump is safely engaged, the turrets are deployed, the agent is delivered to the intended target at the proper rate, and the apparatus is safely moved and continuously monitored for potential problems.

Requisite Knowledge: Principles of agent management and application, effects of terrain and wind on agent application, turret capabilities and limitations, tower light signals, airport markings, aircraft recognition, aircraft danger areas, theoretical critical fire area and practical critical fire area, aircraft entry and egress points, and proper apparatus placement.

Requisite Skills: The ability to provide power to the pump, determine the appropriate position for the apparatus, maneuver apparatus into proper position, avoid obstacles to operations, apply agent, and determine the length of time an extinguishing agent will be available.

7-2.3 Produce a fire stream, given a rate of discharge and water supplied from the sources specified in the following list, so that the pump is safely engaged, the turrets are deployed, the agent is delivered to the intended target at the proper rate, and the apparatus is continuously monitored for potential problems.

- The internal tank
- Pressurized source
- Static source

Requisite Knowledge: Principles of agent management and application, effects of terrain and wind on agent application, turret capabilities and limitations, tower light signals, airport markings, aircraft recognition, aircraft danger areas, theoretical critical fire area and practical critical fire area, aircraft entry and egress points, and proper apparatus placement.

Requisite Skills: The ability to provide power to

the pump, determine the appropriate position for the apparatus, maneuver apparatus into proper position, avoid obstacles to operations, apply agent, and determine the length of time an extinguishing agent will be available.

